



NX_P01308

INS - Expression

1 **1** (16825, //old nove)

(https://old.nextprot.org/db/entry/NX_P01308/expression? np2css=/db/css/np2css.css&np2ori=https://www.nextprot.org&inputOption=true)

Search in neXtProt...

Q

INS » Insulin

Cleaved into: Insulin A chain; Insulin B chain.

extend overview

Gene name: INS Family name: Insulin

Entry whose protein(s) existence is based on evidence at protein level

Expression

show evidences

EXPRESSION I

Highly selective cytoplasmic expression in pancreatic islets.

1 ef prof atla

Sho

Leç Mic

ES

Tissue expression

Alimentary system Cardiovascular system Dermal system Endocrine system

Hemolymphoid and immune system Musculoskeletal system Nervous system Reproductive system

Urinary system Sense organ Body part Tissue

Fluid and secretion Gestational structure

Tissue / Cell type	reset collapse all	mRNA expression		Protein expression
		Microarray	EST	IHC
Alimentary system [TS-1293]	collapse all			
Gastrointestinal tract [TS-0407]				
Esophagus [TS-0700]				
Esophageal epithelium [TS-0698]				
Esophageal squamous cell [TS	S-1250]			
Hypopharynx [TS-2020]				
Intestine [TS-0490]				
Large intestine [TS-1306]				
Cecum [TS-0122]				

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IHC

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microarray HIVA expression level evidence Bgee ENSGUUUUU25464/
(http://www.isbisib@h/)elease v2.9.0 | O For developers (https://github.com/calipho-sib/)
```

Expression not detected at 25-44 year-old adult stage.

microarray RNA expression level evidence Bgee ENSG00000254647

Expression not detected at 19-24 year-old adult stage.

```
Appendix [TS-1267]
       Appendix lymphoid tissue [TS-1268]
        Appendix mucosa [TS-2022]
           Appendix epithelium [TS-2062]
               Appendix glandular cell [TS-1271]
Colon [TS-0158]
    Colon endothelium [TS-0162]
       Colon endothelial cell [TS-2397]
    Colon mucosa [TS-0164]
        Colon epithelium [TS-0163]
           Colon glandular cell [TS-1274]
   Colon nerve tissue [TS-2373]
Colorectum [TS-1298]
Large intestine mucosa [TS-2106]
    Appendix mucosa [TS-2022]
        Appendix epithelium [TS-2062]
           Appendix glandular cell [TS-1271]
    Colon mucosa [TS-0164]
        Colon epithelium [TS-0163]
           Colon glandular cell [TS-1274]
    Large intestine epithelium [TS-2105]
        Appendix epithelium [TS-2062]
           Appendix glandular cell [TS-1271]
        Colon epithelium [TS-0163]
           Colon glandular cell [TS-1274]
        Rectal epithelium [TS-2066]
           Rectum glandular cell [TS-1281]
    Rectum mucosa [TS-2107]
        Rectal epithelium [TS-2066]
           Rectum glandular cell [TS-1281]
Rectum [TS-1180]
    Rectum mucosa [TS-2107]
        Rectal epithelium [TS-2066]
           Rectum glandular cell [TS-1281]
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(http://www.isb-sib.ch/) [TS-0214]
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Duodenal mucosa [TS-0213]
                   Duodenal epithelium [TS-2087]
                       Duodenum glandular cell [TS-1275]
           Ileum [TS-0472]
           Jejunum [TS-0496]
           Small intestine mucosa [TS-0941]
               Duodenal mucosa [TS-0213]
                    Duodenal epithelium [TS-2087]
                       Duodenum glandular cell [TS-1275]
               Small intestine epithelium [TS-2104]
                   Duodenal epithelium [TS-2087]
                       Duodenum glandular cell [TS-1275]
                   Small intestine glandular cell [TS-1286]
   Mouth [TS-1315]
       Gingiva [TS-2074]
       Oral mucosa [TS-0716]
           Oral epithelium [TS-0715]
               Oral mucosa squamous cell [TS-1252]
       Salivary gland [TS-0892]
           Major salivary gland [TS-2458]
               Parotid gland [TS-0748]
           Salivary gland epithelium [TS-2067]
               Salivary gland glandular cell [TS-1282]
       Tongue [TS-1050]
       Tonsil [TS-1053]
           Tonsil epithelium [TS-2070]
               Tonsil squamous cell [TS-1253]
           Tonsil lymphoid cell [TS-1270]
               Tonsil germinal center cell [TS-1288]
               Tonsil nongerminal center cell [TS-2172]
   Stomach [TS-0980]
       Stomach mucosa [TS-0404]
           Stomach epithelium [TS-2068]
               Stomach glandular cell [TS-1284]
Liver and biliary system [TS-1308]
   Bile duct [TS-0075]
   Gall bladder [TS-0394]
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Gall bladder epithelium [TS-1304]

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(http://www.isb-sib.ch/)
Gail bladder glandular cell [TS-1278]
       Liver [TS-0564]
          Hepatocyte [TS-0454]
   Pancreas [TS-0736]
    microarray RNA expression level evidence Bgee ENSG00000254647
        Expression detected at adult stage. 
silver
    microarray RNA expression level evidence Bgee ENSG00000254647
        Expression detected at unknown stage. < silver
       Endocrine pancreas [TS-1302]
           Pancreatic islet [TS-0741]
            microarray RNA expression level evidence Bgee ENSG00000254647
                Expression detected at 65-79 year-old adult stage.
            microarray RNA expression level evidence Bgee ENSG00000254647
                Expression detected at 45-64 year-old adult stage.
            microarray RNA expression level evidence Bgee ENSG00000254647
                Expression detected at 25-44 year-old adult stage.
            microarray RNA expression level evidence Bgee ENSG00000254647
                Expression detected at adult stage.
            microarray RNA expression level evidence Bgee ENSG00000254647
                Expression detected at unknown stage.
            immunolocalization evidence HPA HPA004932; CAB000048; CAB012098; CAB053843
                High expression annotated.
       Exocrine pancreas [TS-1241]
           Exocrine pancreas epithelium [TS-2108]
              Pancreas exocrine glandular cell [TS-1242]
```

```
collapse all
Cardiovascular system [TS-1297]
   Blood vessel [TS-0080]
       Artery [TS-0054]
           Aorta [TS-0046]
           Coronary artery [TS-0176]
       Blood vessel vascular endothelium [TS-2155]
           Capillary endothelium [TS-0112]
               Brain endothelium [TS-0092]
                   Carabral cortay and thalial call ITS_23791
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OCICDIAI COITEX CHUOTHCHAI COIL [10-20/2]
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(http://www.isb-sib.ch/)
           Colon endothelium [TS-0162]
               Colon endothelial cell [TS-2397]
       Capillary [TS-2006]
           Brain capillary [TS-0090]
               Brain endothelium [TS-0092]
                   Cerebral cortex endothelial cell [TS-2372]
           Capillary endothelium [TS-0112]
               Brain endothelium [TS-0092]
                   Cerebral cortex endothelial cell [TS-2372]
       Vein [TS-1108]
   Blood [TS-0079]
   Heart [TS-0445]
       Endocardium [TS-2075]
       Heart atrium [TS-0437]
       Heart muscle [TS-0440]
           Heart muscle cell [TS-0115]
       Heart ventricle [TS-0444]
       Pericardium [TS-0761]
```

```
Dermal system [TS-1299] collapse all

Skin [TS-0934]

Dermis [TS-2076]

Epidermis [TS-0283]

Hair follicle [TS-0432]

Keratinocyte [TS-0500]

Skin Langerhans cell [TS-2376]

Skin Melanocyte [TS-2374]

Skin appendage [TS-0051]

Hair follicle [TS-0432]

Skin fibroblast [TS-0935]
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Endocrine system [TS-1301] collapse all

Endocrine gland [TS-1300]

Adrenal gland [TS-0016]
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(http://www.disdorsiib.ooh/e)k [TS-0015]
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Adrenal gland glandular cell [TS-2177]
Endocrine pancreas [TS-1302]
   Pancreatic islet [TS-0741]
Ovary [TS-0730]
   Ovarian follicle [TS-0726]
   Ovarian stroma [TS-1246]
Parathyroid [TS-0745]
    Parathyroid epithelium [TS-2141]
        Parathyroid glandular cell [TS-1279]
Pineal gland [TS-0789]
Pituitary gland [TS-0798]
Testis [TS-1030]
   Leydig cell [TS-1150]
   Seminiferous tubule [TS-1239]
Thyroid [TS-1047]
    Thyroid epithelium [TS-2167]
       Thyroid gland glandular cell [TS-2166]
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collapse all
Exocrine system [TS-2057]
   Exocrine gland [TS-2012]
       Exocrine pancreas [TS-1241]
           Exocrine pancreas epithelium [TS-2108]
               Pancreas exocrine glandular cell [TS-1242]
       Lacrimal gland [TS-0512]
       Mammary gland [TS-0595]
           Mammary epithelium [TS-0593]
               Mammary gland glandular cell [TS-1272]
               Mammary gland myoepithelial cell [TS-2378]
       Prostate [TS-0828]
           Prostate epithelium [TS-2065]
               Prostate glandular cell [TS-1280]
       Salivary gland [TS-0892]
           Major salivary gland [TS-2458]
               Parotid gland [TS-0748]
           Salivary gland epithelium [TS-2067]
               Salivary gland glandular cell [TS-1282]
```



Hemolymphoid and immune system [TS-2018]

```
collapse all
      Hematopoietic and immune systems [TS-0449]
          Blood [TS-0079]
          Bone marrow [TS-0087]
              Hematopoietic tissue [TS-2142]
                  Bone marrow hematopoietic cell [TS-2109]
          Hematopoietic cell [TS-2017]
              Bone marrow hematopoietic cell [TS-2109]
              Dendritic cell [TS-0194]
                  Conventional dendritic cell [TS-2192]
                      Langerhans cell [TS-2375]
                          Skin Langerhans cell [TS-2376]
              Leukocyte [TS-0549]
                  Lymphoid cell [TS-1238]
                      Lymph node lymphoid cell [TS-1289]
                          Lymph node germinal center cell [TS-1269]
                          Lymph node nongerminal center cell [TS-
2171]
                      Tonsil lymphoid cell [TS-1270]
                          Tonsil germinal center cell [TS-1288]
                         Tonsil nongerminal center cell [TS-2172]
                  Myeloid leukocyte [TS-2367]
                      Macrophage [TS-0587]
                          Lung macrophage [TS-0576]
              Myeloid cell [TS-0647]
                  Myeloid leukocyte [TS-2367]
                      Macrophage [TS-0587]
                          Lung macrophage [TS-0576]
          Lymphoid tissue [TS-0584]
              Appendix lymphoid tissue [TS-1268]
              Lymph node [TS-0579]
                  Lymph node lymphoid cell [TS-1289]
                      Lymph node germinal center cell [TS-1269]
                     Lymph node nongerminal center cell [TS-2171]
              Spleen [TS-0956]
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Spieen rea puip [18-1263] (http://www.isb-sib.ch/)
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immunolocalization evidence HPA HPA004932; CAB000048; CAB012098; CAB053843

No expression annotated.

```
Spleen white pulp [TS-1264]

Thymus [TS-1043]

Tonsil [TS-1053]

Tonsil epithelium [TS-2070]

Tonsil squamous cell [TS-1253]

Tonsil lymphoid cell [TS-1270]

Tonsil germinal center cell [TS-1288]
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Tonsil nongerminal center cell [TS-2172]

```
Musculoskeletal system [TS-1311] collapse all

Skeletal muscle [TS-0933]

Diaphragm [TS-0198]

Skeletal muscle cell [TS-2158]

Skeletal system [TS-1320]

Bone [TS-0088]

Bone marrow [TS-0087]

Hematopoietic tissue [TS-2142]

Bone marrow hematopoietic cell [TS-2109]

Cartilage [TS-0118]

Chondrocyte [TS-0138]

Synovium [TS-0998]

Tendon [TS-1021]
```

```
Central nervous system [TS-0150]

Brain [TS-0095]

Brain capillary [TS-0090]

Brain endothelium [TS-0092]

Cerebral cortex endothelial cell [TS-2372]

Brain stem [TS-0093]

Medulla oblongata [TS-0607]
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03/08/2017
                                                        INS - Insulin - Expression
       (http://www.isb-sib.ch/)
                          Inferior olivari nucleus [TS-2383]
                      Pons [TS-0813]
                          Vestibular nuclei [TS-2078]
                              Superior vestibular nuclei [TS-2079]
                  Forebrain [TS-0380]
                      Diencephalon [TS-0199]
                          Epithalamus [TS-2060]
                              Pineal gland [TS-0789]
                          Hypothalamus [TS-0469]
                          Subthalamus [TS-2048]
                              Subthalamic nucleus [TS-1154]
                          Thalamus [TS-1031]
                              Lateral thalamic nuclei [TS-2028]
                      Telencephalon [TS-1018]
                          Basal ganglia [TS-1149]
                              Amygdala [TS-0037]
                              Caudate nucleus [TS-0121]
                              Corpus striatum [TS-0183]
                              Globus pallidus [TS-2013]
                              Putamen [TS-2041]
                          Cerebral cortex [TS-0091]
                              Cerebral cortex endothelial cell [TS-2372]
                              Cerebral cortex glial cell [TS-1256]
                              Cerebral cortex neuron [TS-1259]
                              Cerebral cortex neuropil [TS-2396]
                          Cerebral hemisphere [TS-2007]
                              Frontal lobe [TS-0389]
                                 Olfactory bulb [TS-0702]
                              Limbic lobe [TS-2061]
                                  Hippocampal formation [TS-2449]
                                      Hippocampus [TS-0460]
                                         Hippocampus glial cell [TS-
    1257]
                                         Hippocampus neuron [TS-1260]
                              Occipital lobe [TS-0693]
                              Parietal lobe [TS-0747]
                              Temporal lobe [TS-1020]
                                 Parahippocampal gyrus [TS-2038]
                          Corpus callosum [TS-0180]
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03/08/2017
                           Lateral ventricle [18-1230]
       (http://www.isb-sib.ch/)
                               Lateral ventricle glial cell [TS-1258]
                               Lateral ventricle neuron [TS-1261]
                   Hindbrain [TS-0457]
                       Medulla oblongata [TS-0607]
                           Dorsal vagal nucleus [TS-2381]
                           Inferior olivari nucleus [TS-2383]
                       Metencephalon [TS-2029]
                           Cerebellum [TS-0125]
                               Cerebellar cortex [TS-2000]
                                  Cerebellum granular layer [TS-1247]
                                  Cerebellum molecular layer [TS-1248]
                                  Purkinje cell [TS-0845]
                              Vermis [TS-2059]
                           Pons [TS-0813]
                               Vestibular nuclei [TS-2078]
                                  Superior vestibular nuclei [TS-2079]
                   Limbic system [TS-1307]
                      Amygdala [TS-0037]
                       Hippocampal formation [TS-2449]
                           Hippocampus [TS-0460]
                               Hippocampus glial cell [TS-1257]
                               Hippocampus neuron [TS-1260]
                      Hypothalamus [TS-0469]
                      Olfactory bulb [TS-0702]
                       Parahippocampal gyrus [TS-2038]
                   Midbrain [TS-0630]
                       Substantia nigra [TS-0990]
                   Ventricular system of brain [TS-1295]
                       Lateral ventricle [TS-1230]
                           Lateral ventricle glial cell [TS-1258]
                           Lateral ventricle neuron [TS-1261]
               Neuropil [TS-2403]
                  Cerebral cortex neuropil [TS-2396]
              Spinal cord [TS-0953]
           Nervous system cell [TS-2040]
               Glial cell [TS-0415]
                  Cerebral cortex glial cell [TS-1256]
                  Hippocampus glial cell [TS-1257]
                  Lateral ventricle glial cell [TS-1258]
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(http://www.isb-sib.ch/)
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```
Cerebral cortex neuron [TS-1259]
       Hippocampus neuron [TS-1260]
       Lateral ventricle neuron [TS-1261]
       Purkinje cell [TS-0845]
Peripheral nervous system [TS-0808]
   Autonomic nervous system [TS-2001]
       Enteric nervous system [TS-2093]
           Colon nerve tissue [TS-2373]
       Sympathetic nervous system [TS-2050]
           Sympathetic chain [TS-2049]
   Ganglion [TS-0397]
       Spinal ganglion [TS-0954]
   Peripheral nerve [TS-0772]
       Cranial nerve [TS-2472]
           Optic nerve [TS-0713]
       Sciatic nerve [TS-0899]
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collapse all
Reproductive system [TS-1318]
   Female reproductive system [TS-1303]
       Ovary [TS-0730]
           Ovarian follicle [TS-0726]
           Ovarian stroma [TS-1246]
       Oviduct [TS-0732]
           Oviduct epithelium [TS-1316]
               Oviduct glandular cell [TS-1277]
       Uterus [TS-1102]
           Endometrium [TS-0276]
               Endometrial glandular cell [TS-2430]
               Endometrium stroma [TS-1266]
           Myometrium [TS-0652]
           Uterine cervix [TS-0134]
               Uterine cervix epithelium [TS-0137]
                   Uterine cervix glandular cell [TS-1273]
                   Uterine cervix squamous cell [TS-1251]
       Vagina [TS-1103]
           Vaginal epithelium [TS-1325]
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(http://www.isb-sib.ch/)

Vulva [TS-1168]

Male reproductive system [TS-1310]

Epididymis [TS-0285]

Epididymal epithelium [TS-2063]

Epididymis glandular cell [TS-1276]

Penis [TS-0758]

Prostate [TS-0828]

Prostate epithelium [TS-2065]

Prostate glandular cell [TS-1280]

Seminal vesicle [TS-0919]

Seminal vesicle epithelium [TS-2069]

Seminal vesicle glandular cell [TS-1283]

Testis [TS-1030]

Leydig cell [TS-1150]
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Seminiferous tubule [TS-1239]

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collapse all
Respiratory system [TS-1319]
   Airway epithelium [TS-0023]
       Nasopharyngeal epithelium [TS-0662]
           Nasopharyngeal epithelial cell [TS-2398]
       Tracheobronchial epithelium [TS-1063]
           Bronchus epithelium [TS-1240]
               Bronchus epithelial cell [TS-2399]
   Larynx [TS-0532]
   Lung [TS-0568]
       Bronchoalveolar system [TS-1296]
           Alveolus [TS-0031]
               Pneumocyte [TS-2168]
           Bronchus [TS-1229]
               Bronchus epithelium [TS-1240]
                  Bronchus epithelial cell [TS-2399]
       Lung macrophage [TS-0576]
   Nose [TS-2037]
   Pharynx [TS-0785]
       Hypopharynx [TS-2020]
       Nasopharynx [TS-0663]
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(http://www.isb-sib.ch/) (http://www.isb-sib.ch/)
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Nasopharyngeal epithelial cell [TS-2398]

Pleura [TS-2081]

Trachea [TS-1060]

```
collapse all
Urinary system [TS-1323]
   Kidney [TS-0510]
       Kidney cortex [TS-0503]
           Renal corpuscle [TS-1317]
               Renal glomerulus [TS-0862]
       Nephron [TS-1312]
           Renal corpuscle [TS-1317]
               Renal glomerulus [TS-0862]
           Renal tubule [TS-1262]
            microarray RNA expression level evidence Bgee ENSG00000254647
                 Expression not detected at 45-64 year-old adult stage.
            microarray RNA expression level evidence Bgee ENSG00000254647
                 Expression not detected at 25-44 year-old adult stage.
            immunolocalization evidence HPA HPA004932; CAB000048; CAB012098; CAB053843
                 No expression annotated.
               Renal proximal tubule [TS-0509]
   Urethra [TS-1132]
   Urinary bladder [TS-1090]
       Urinary bladder urothelium [TS-1088]
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(http://www.isb-sib.ch/)
Ocular ciliary body [TS-0694]

Retina [TS-0865]

Fovea centralis [TS-2055]

Trabecular meshwork [TS-1058]

Nose [TS-2037]

Tongue [TS-1050]
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collapse all
Body part [TS-2084]
   Head and neck [TS-2356]
       Head [TS-0436]
           Ear [TS-1165]
               Inner ear [TS-0478]
                   Osseous labyrinth [TS-2080]
                       Inner ear vestibule [TS-0479]
           Face [TS-2216]
               Ocular region [TS-2497]
                   Eye [TS-0309]
                       Choroid [TS-2054]
                       Conjunctiva [TS-2232]
                       Cornea [TS-0171]
                       Iris [TS-0491]
                       Lens [TS-0545]
                       Ocular ciliary body [TS-0694]
                       Retina [TS-0865]
                           Fovea centralis [TS-2055]
                       Trabecular meshwork [TS-1058]
                   Ocular adnexa [TS-2454]
                       Lacrimal gland [TS-0512]
           Mouth [TS-1315]
               Gingiva [TS-2074]
               Oral mucosa [TS-0716]
                   Oral epithelium [TS-0715]
                       Oral mucosa squamous cell [TS-1252]
               Salivary gland [TS-0892]
                   Major salivary gland [TS-2458]
                       Parotid gland [TS-0748]
                   Salivary gland epithelium [TS-2067]
                       Salivary gland glandular cell [TS-1282]
               Tongue [TS-1050]
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(http://www.isto-sibilchู้นี้)-1053]
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Tonsil epithelium [TS-2070]
                   Tonsil squamous cell [TS-1253]
               Tonsil lymphoid cell [TS-1270]
                   Tonsil germinal center cell [TS-1288]
                   Tonsil nongerminal center cell [TS-2172]
       Nose [TS-2037]
       Sinonasal and nasal cavity [TS-2456]
           Paranasal sinuses [TS-2082]
Trunk [TS-1071]
   Abdomen [TS-0001]
       Peritoneum [TS-2072]
           Omentum [TS-2004]
               Greater omentum [TS-2073]
    Breast [TS-2083]
       Breast adipocyte [TS-2377]
       Mammary gland [TS-0595]
           Mammary epithelium [TS-0593]
               Mammary gland glandular cell [TS-1272]
               Mammary gland myoepithelial cell [TS-2378]
```

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collapse all
Tissue [TS-2090]
    Connective tissue [TS-2009]
       Adipose tissue [TS-0013]
           Adipocyte [TS-0012]
               Breast adipocyte [TS-2377]
       Cartilage [TS-0118]
           Chondrocyte [TS-0138]
       Connective tissue cell [TS-2096]
           Adipocyte [TS-0012]
               Breast adipocyte [TS-2377]
           Chondrocyte [TS-0138]
           Fibroblast [TS-0362]
               Skin fibroblast [TS-0935]
       Ligament [TS-2145]
       Synovium [TS-0998]
       Tendon [TS-1021]
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(http:///www.ispssib.ch/)

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Airway epithelium [TS-0023]
    Nasopharyngeal epithelium [TS-0662]
       Nasopharyngeal epithelial cell [TS-2398]
    Tracheobronchial epithelium [TS-1063]
        Bronchus epithelium [TS-1240]
           Bronchus epithelial cell [TS-2399]
Endothelium [TS-0278]
    Blood vessel vascular endothelium [TS-2155]
        Capillary endothelium [TS-0112]
            Brain endothelium [TS-0092]
                Cerebral cortex endothelial cell [TS-2372]
        Colon endothelium [TS-0162]
           Colon endothelial cell [TS-2397]
    Endothelial cell [TS-2401]
       Cerebral cortex endothelial cell [TS-2372]
       Colon endothelial cell [TS-2397]
Epidermis [TS-0283]
   Hair follicle [TS-0432]
   Keratinocyte [TS-0500]
Epididymal epithelium [TS-2063]
   Epididymis glandular cell [TS-1276]
Epithelial cell [TS-2026]
   Bronchus epithelial cell [TS-2399]
    Endothelial cell [TS-2401]
       Cerebral cortex endothelial cell [TS-2372]
       Colon endothelial cell [TS-2397]
    Glandular cell [TS-2085]
       Adrenal gland glandular cell [TS-2177]
       Appendix glandular cell [TS-1271]
       Colon glandular cell [TS-1274]
       Duodenum glandular cell [TS-1275]
       Endometrial glandular cell [TS-2430]
       Epididymis glandular cell [TS-1276]
       Gall bladder glandular cell [TS-1278]
       Mammary gland glandular cell [TS-1272]
       Oviduct glandular cell [TS-1277]
       Pancreas exocrine glandular cell [TS-1242]
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Parathyroid glandular cell [TS-1279]

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(http://www.isb-sib.ch/)
Prostate glandular cell [TS-1280]
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Rectum glandular cell [TS-1281]

Salivary gland glandular cell [TS-1282]

Seminal vesicle glandular cell [TS-1283]

Small intestine glandular cell [TS-1286]

Stomach glandular cell [TS-1284]

Thyroid gland glandular cell [TS-2166]

Uterine cervix glandular cell [TS-1273]

Hepatocyte [TS-0454]

Keratinocyte [TS-0500]

Myoepithelial cell [TS-2379]

Mammary gland myoepithelial cell [TS-2378]

Nasopharyngeal epithelial cell [TS-2398]

Squamous cell [TS-1249]

Esophageal squamous cell [TS-1250]

Oral mucosa squamous cell [TS-1252]

Tonsil squamous cell [TS-1253]

Uterine cervix squamous cell [TS-1251]

Vagina squamous cell [TS-1254]

Esophageal epithelium [TS-0698]

Esophageal squamous cell [TS-1250]

Exocrine pancreas epithelium [TS-2108]

Pancreas exocrine glandular cell [TS-1242]

Gall bladder epithelium [TS-1304]

Gall bladder glandular cell [TS-1278]

Large intestine epithelium [TS-2105]

Appendix epithelium [TS-2062]

Appendix glandular cell [TS-1271]

Colon epithelium [TS-0163]

Colon glandular cell [TS-1274]

Rectal epithelium [TS-2066]

Rectum glandular cell [TS-1281]

Mammary epithelium [TS-0593]

Mammary gland glandular cell [TS-1272]

Mammary gland myoepithelial cell [TS-2378]

Oral epithelium [TS-0715]

Oral mucosa squamous cell [TS-1252]

Oviduct epithelium [TS-1316]

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Oviduct glandular cell [TS-1277] (http://www.isb-sib.ch/)
       Parathyroid epithelium ITS-21411
           Parathyroid glandular cell [TS-1279]
       Prostate epithelium [TS-2065]
           Prostate glandular cell [TS-1280]
       Salivary gland epithelium [TS-2067]
           Salivary gland glandular cell [TS-1282]
       Seminal vesicle epithelium [TS-2069]
           Seminal vesicle glandular cell [TS-1283]
       Small intestine epithelium [TS-2104]
           Duodenal epithelium [TS-2087]
               Duodenum glandular cell [TS-1275]
           Small intestine glandular cell [TS-1286]
       Stomach epithelium [TS-2068]
           Stomach glandular cell [TS-1284]
       Thyroid epithelium [TS-2167]
           Thyroid gland glandular cell [TS-2166]
       Tonsil epithelium [TS-2070]
           Tonsil squamous cell [TS-1253]
       Urothelium [TS-1096]
           Urinary bladder urothelium [TS-1088]
       Uterine cervix epithelium [TS-0137]
           Uterine cervix glandular cell [TS-1273]
           Uterine cervix squamous cell [TS-1251]
       Vaginal epithelium [TS-1325]
           Vagina squamous cell [TS-1254]
   Extraembryonic tissue [TS-2119]
       Placenta [TS-0799]
           Decidua placentalis [TS-0193]
       Trophoblast [TS-1070]
       Umbilical cord [TS-1078]
   Hematopoietic tissue [TS-2142]
       Bone marrow hematopoietic cell [TS-2109]
   Lymphoid tissue [TS-0584]
       Appendix lymphoid tissue [TS-1268]
       Lymph node [TS-0579]
           Lymph node lymphoid cell [TS-1289]
               Lymph node germinal center cell [TS-1269]
               Lymph node nongerminal center cell [TS-2171]
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Spleen [TS-0956]
(http://www.isb-sib.ch/)
           Spleen red pulp [TS-1263]
           Spleen white pulp [TS-1264]
       Thymus [TS-1043]
       Tonsil [TS-1053]
           Tonsil epithelium [TS-2070]
               Tonsil squamous cell [TS-1253]
           Tonsil lymphoid cell [TS-1270]
               Tonsil germinal center cell [TS-1288]
               Tonsil nongerminal center cell [TS-2172]
   Mucosa [TS-2031]
       Large intestine mucosa [TS-2106]
           Appendix mucosa [TS-2022]
               Appendix epithelium [TS-2062]
                   Appendix glandular cell [TS-1271]
           Colon mucosa [TS-0164]
               Colon epithelium [TS-0163]
                   Colon glandular cell [TS-1274]
           Large intestine epithelium [TS-2105]
               Appendix epithelium [TS-2062]
                   Appendix glandular cell [TS-1271]
               Colon epithelium [TS-0163]
                   Colon glandular cell [TS-1274]
               Rectal epithelium [TS-2066]
                   Rectum glandular cell [TS-1281]
           Rectum mucosa [TS-2107]
               Rectal epithelium [TS-2066]
                   Rectum glandular cell [TS-1281]
       Oral mucosa [TS-0716]
           Oral epithelium [TS-0715]
               Oral mucosa squamous cell [TS-1252]
       Small intestine mucosa [TS-0941]
           Duodenal mucosa [TS-0213]
               Duodenal epithelium [TS-2087]
                   Duodenum glandular cell [TS-1275]
           Small intestine epithelium [TS-2104]
               Duodenal epithelium [TS-2087]
                   Duodenum glandular cell [TS-1275]
               Small intestine glandular cell [TS-1286]
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(http://www.isbrsib.eh/) [TS-0404]
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Stomach epithelium [TS-2068]
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Stomach glandular cell [TS-1284]

Muscle [TS-0642]

Muscle cell [TS-2032]

Smooth muscle cell [TS-2159]

Striated muscle cell [TS-2157]

Heart muscle cell [TS-0115]

Skeletal muscle cell [TS-2158]

Smooth muscle [TS-0943]

Myometrium [TS-0652]

Smooth muscle cell [TS-2159]

Striated muscle [TS-2047]

Heart muscle [TS-0440]

Heart muscle cell [TS-0115]

Skeletal muscle [TS-0933]

Diaphragm [TS-0198]

Skeletal muscle cell [TS-2158]

Striated muscle cell [TS-2157]

Heart muscle cell [TS-0115]

Skeletal muscle cell [TS-2158]

Cell type [TS-2035]

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Connective tissue cell [TS-2096]

Adipocyte [TS-0012]

Breast adipocyte [TS-2377]

Chondrocyte [TS-0138]

Fibroblast [TS-0362]

Skin fibroblast [TS-0935]

Epithelial cell [TS-2026]

Bronchus epithelial cell [TS-2399]

Endothelial cell [TS-2401]

Cerebral cortex endothelial cell [TS-2372]

Colon endothelial cell [TS-2397]

Glandular cell [TS-2085]

Adrenal gland glandular cell [TS-2177]

Appendix glandular cell [TS-1271]

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03/08/2017
         (http://www.isb-sib.ch/)
Colon glandular cell [TS-1274]
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Duodenum glandular cell [TS-1275]
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Endometrial glandular cell [TS-2430]

Epididymis glandular cell [TS-1276]

Gall bladder glandular cell [TS-1278]

Mammary gland glandular cell [TS-1272]

Oviduct glandular cell [TS-1277]

Pancreas exocrine glandular cell [TS-1242]

Parathyroid glandular cell [TS-1279]

Prostate glandular cell [TS-1280]

Rectum glandular cell [TS-1281]

Salivary gland glandular cell [TS-1282]

Seminal vesicle glandular cell [TS-1283]

Small intestine glandular cell [TS-1286]

Stomach glandular cell [TS-1284]

Thyroid gland glandular cell [TS-2166]

Uterine cervix glandular cell [TS-1273]

Hepatocyte [TS-0454]

Keratinocyte [TS-0500]

Myoepithelial cell [TS-2379]

Mammary gland myoepithelial cell [TS-2378]

Nasopharyngeal epithelial cell [TS-2398]

Squamous cell [TS-1249]

Esophageal squamous cell [TS-1250]

Oral mucosa squamous cell [TS-1252]

Tonsil squamous cell [TS-1253]

Uterine cervix squamous cell [TS-1251]

Vagina squamous cell [TS-1254]

Hematopoietic cell [TS-2017]

Bone marrow hematopoietic cell [TS-2109]

Dendritic cell [TS-0194]

Conventional dendritic cell [TS-2192]

Langerhans cell [TS-2375]

Skin Langerhans cell [TS-2376]

Leukocyte [TS-0549]

Lymphoid cell [TS-1238]

Lymph node lymphoid cell [TS-1289]

Lymph node germinal center cell [TS-1269]

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Lymph node nongerminal center cell [TS-2171]

(http://www.isb-sib.ch/)
               Tonsil lymphoid cell [TS-1270]
                   Tonsil germinal center cell [TS-1288]
                   Tonsil nongerminal center cell [TS-2172]
           Myeloid leukocyte [TS-2367]
               Macrophage [TS-0587]
                   Lung macrophage [TS-0576]
       Myeloid cell [TS-0647]
           Myeloid leukocyte [TS-2367]
               Macrophage [TS-0587]
                   Lung macrophage [TS-0576]
   Leydig cell [TS-1150]
   Melanocyte [TS-0613]
       Skin Melanocyte [TS-2374]
   Muscle cell [TS-2032]
       Smooth muscle cell [TS-2159]
       Striated muscle cell [TS-2157]
           Heart muscle cell [TS-0115]
           Skeletal muscle cell [TS-2158]
   Nervous system cell [TS-2040]
       Glial cell [TS-0415]
           Cerebral cortex glial cell [TS-1256]
           Hippocampus glial cell [TS-1257]
           Lateral ventricle glial cell [TS-1258]
       Neuron [TS-0683]
           Cerebral cortex neuron [TS-1259]
           Hippocampus neuron [TS-1260]
           Lateral ventricle neuron [TS-1261]
           Purkinje cell [TS-0845]
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Fluid and secretion [TS-2101]
   Blood [TS-0079]
   Extraembryonic fluid [TS-2120]
       Amniotic fluid [TS-0034]
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Embryo [TS-0229]

Embryonic brain [TS-0231]

Embryonic cerebral cortex [TS-2382]

Embryonic rhombencephalon [TS-2118]

Embryonic head [TS-0246]

Embryonic maxilla [TS-2400]

Embryonic tongue [TS-2133]

Embryonic liver [TS-0252]

Embryonic structure [TS-2110]

Blastocyst [TS-0076]
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Trophoblast ITS-10701