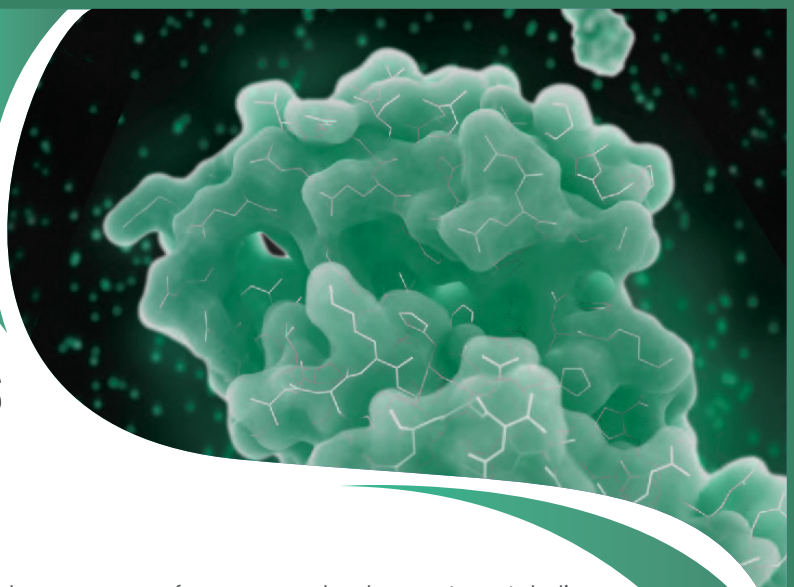
Sino Biological

FGF Family and Receptors



Fibroblast growth factors (FGFs) are involved in a variety of cellular processes, from organ development, metabolism homeostasis, and angiogenesis to immunity and drug resistance. 18 mammalian FGFs are classified into six subfamilies based on sequence homology and development characteristics: FGF1 (FGF1 and FGF2), FGF4 (FGF4, FGF5, and FGF6), FGF7 (FGF3, FGF7, FGF10, and FGF22), FGF8 (FGF8, FGF17, and FGF18), FGF9 (FGF9, FGF16, and FGF20), and FGF19 (FGF19, FGF21, and FGF23). By binding to FGF receptors (FGFR1, FGFR2, FGFR3, or FGFR4), FGFs exert their pleiotropic effects in a variety of human diseases, such as chronic kidney disease (CKD), obesity, and various tumors. Recombinant FGFs, anti-FGF/FGFR monoclonal antibodies, and FGFR inhibitors are under development for the treatment of cancers, cardiovascular disease, and neurodegenetive diseases.

Recommended Reagents for FGFRs

Sino Biological has developed 40+ recombinant FGFRs with high purity and validated activity from various species, such as human, mouse, cynomolgus, rhesus, and rat. 50+ antibodies have been developed targeting FGFRs, which can be used in ELISA, WB, IP, and IHC.

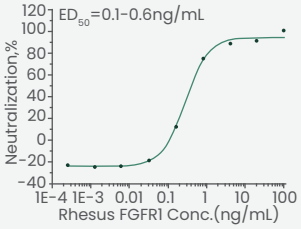
FGFR1

Rhesus FGFR1 Protein

90075-C02H

Purity: > 95 % by SDS-PAGE

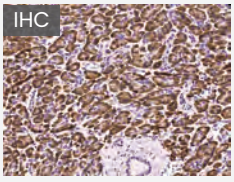
Activity:
Ability to inhibit FGF-acidic dependent proliferation of BALB/c 3T3 mouse fibroblasts



Anti-FGFR1 Antibody, Mouse Monoclonal

10616-MM09

Application: IHC-P



Immunochemical staining of FGFR1 in lung carcinoma cells

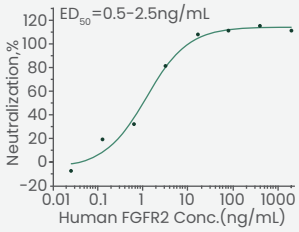
FGFR2

Human FGFR2 Protein

10824-H03H

1 Citation
PubMed ID: 28589943

Activity:
Ability to inhibit FGF-acidic dependent proliferation of BALB/c 3T3 mouse fibroblasts



Anti-FGFR2 Antibody, Monoclonal

10824-R016 (Rabbit Mab)

Application: ELISA
Source: Monoclonal Rabbit IgG

10824-MM02T-H (Mouse Mab)

Application: ELISA
Source: Monoclonal Mouse IgG1
Label: HRP

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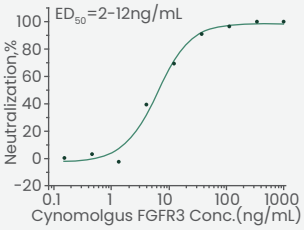
FGFR3

Cynomolgus FGFR3 Protein

90313-C02H

1 Citation
PubMed ID: 8229736

Activity:
Ability to inhibit FGF-acidic dependent proliferation of BALB/c 3T3 mouse fibroblasts

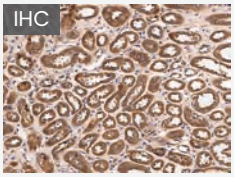


Anti-FGFR3 Antibody, Mouse Monoclonal

100550-MM07

Application: IHC-P

Immunochemical staining of FGFR3 in human kidney cells



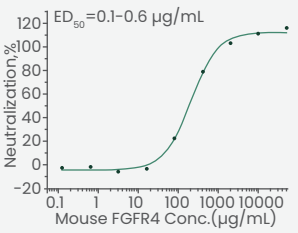
FGFR4

Mouse FGFR4 Protein

50194-M03H

Purity: > 95 % by SDS-PAGE

Activity:
Ability to inhibit FGF-acidic dependent proliferation of BALB/c 3T3 mouse fibroblasts

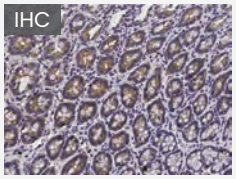


Anti-FGFR4 Antibody, Rabbit Polyclonal

80093-RP02

Application: ELISA, IHC-P

Immunochemical staining of FGFR4 in rat stomach cells



More FGFR Proteins (Partial)

Molecule	Cat#	Species	Activity
FGFR1	10616-H08H	Human	Active
FGFR1	50186-M02H	Mouse	Active
FGFR2	16485-H02H	Human	Active
FGFR2	51128-M02H	Mouse	Active
FGFR3	16044-H02H	Human	Active
FGFR3	50071-M08H	Mouse	Active
FGFR4	10538-H02H	Human	Active
FGFR4	80093-R02H	Rat	Active
FGFR4	90134-C02H	Rhesus	Active
FGFRL1	50182-M08H	Mouse	Active

More FGFR Antibodies (Partial)

Antigen	Cat#	Type	Application
FGFR1	100621-T08	Rabbit PAb	IHC-P
FGFR1	50186-R001	Rabbit MAb	ELISA
FGFR2	10824-MM07	Mouse MAb	ELISA
FGFR2	51128-T16	Rabbit PAb	ELISA
FGFR3	50071-R042	Rabbit MAb	ELISA
FGFR3	90313-T24	Rabbit PAb	ELISA, IHC-P
FGFR4	10538-MM01	Mouse MAb	ELISA
FGFR4	10538-R249	Rabbit MAb	ELISA
FGFR4	50194-RP01	Rabbit PAb	ELISA
FGFRL1	50182-R019	Rabbit MAb	WB, IP

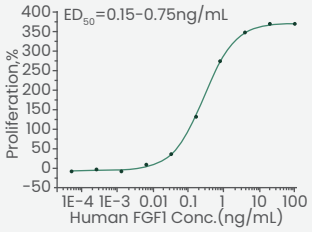
Recommended Reagents for FGF Family

Human FGF1 Protein

10013-HNAE

1 Citation
PubMed ID: 31477837

Activity:
Cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts

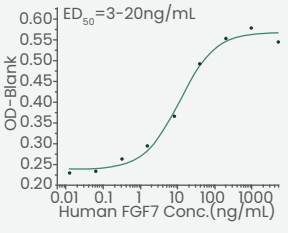


Human FGF7 Protein

10210-H07E

1 Citation
PubMed ID: 28339052

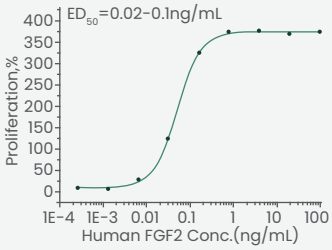
Activity:
Cell proliferation assay using Ba/F3 mouse pro-B cells transfected with human FGFR2b



Human FGF2 Protein

10014-HNAE

7 Citations
PubMed ID:
28911139
28589943
34884759
33975953
33998185
30876848
28939884



Activity:
Cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts

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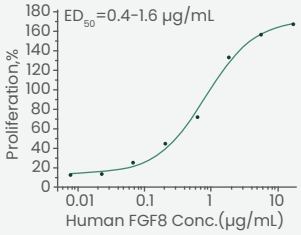
Human FGF8 Protein

16277-HNAE

2 Citations
PubMed ID:
33019532
33019532



Activity:
Ability to inhibit FGF-acidic dependent proliferation of BALB/c 3T3 mouse fibroblasts

Human FGF19 Protein

12226-HNAE

1 Citation
PubMed ID:
32555680

Purity: > 97 % by SDS-PAGE

Mouse FGF18 Protein

50177-M08H

1 Citation
PubMed ID: 35130907

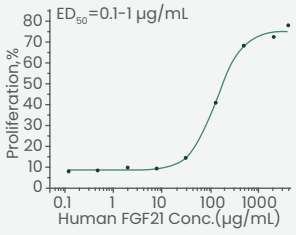
Purity:
> 95 % by SDS-PAGE

Activity:
Immobilized mouse FGF18 at 10 μg/mL (100 μl/well) can bind to Rat FGFR4 (Cat: 80093-R02H), The EC_{50} is 0.44 μg/mL.

Human FGF21 Protein

10911-H07E

Activity:
Cell proliferation assay using NIH-3T3 mouse embryonic fibroblast cells



More FGF Family Proteins

Molecule	Cat#	Species	Tag	Expressed Host	Activity
FGF1	50179-MNAE	Mouse, Rat	Native	*E. coli*	Active
FGF1	70039-DNAE	Canine	Native	*E. coli*	Active
FGF1	90062-CNAE	Cynomolgus	Native	*E. coli*	Active
FGF2	50037-M07E	Mouse	His	*E. coli*	Active
FGF4	16043-HNAE	Human	Native	*E. coli*	Active
FGF6	11528-HNAE	Human	Native	*E. coli*	Active
FGF7	50394-M07E	Mouse	N-His	*E. coli*	Active
FGF8	16124-HNAE	Human	Native	*E. coli*	Active
FGF9	10262-H01H	Human	hFc	HEK293 Cells	Active
FGF9	70045-D04H	Canine	mFc	HEK293 Cells	Active
FGF10	10573-HNAE	Human	Native	*E. coli*	Active
FGF12	70100-DNAE	Canine	Native	*E. coli*	
FGF14	13654-HNAE	Human	Native	*E. coli*	Active
FGF14	70046-DNAE	Canine	Native	*E. coli*	Active
FGF16	16010-HNAB	Human, Cynomolgus	Native	Baculovirus-Insect Cells	Active
FGF17	12342-HNAE	Human	Native	*E. coli*	Active
FGF18	13206-H08H	Human	C-His	HEK293 Cells	Active
FGF21	50421-M08H	Mouse	C-His	HEK293 Cells	
FGF21	5A7643-M08H	Hamster	C-His	HEK293 Cells	

Sino Biological has developed 45+ antibodies targeting FGFs, which can be used in ELISA, WB, IP, and IHC. For more detailed information, please visit https://www.sinobiological.com/

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