

Product Datasheet

GFP Antibody NB600-308

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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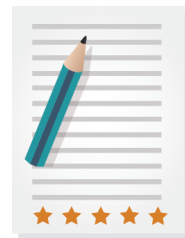
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NB600-308**GFP Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.99 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Target Molecular Weight	27 kDa
Product Description	
Host	Rabbit
Gene Symbol	GFP
Species	Jellyfish, Zebrafish
Reactivity Notes	No reaction was observed against Human, Mouse serum proteins. Suitable for detecting fusion proteins containing the GFP sequence expressed in Human, Mouse, Rat, C. elegans, Drosophila and in vitro transcription/translation systems and transgenic animals. GFP Transgenic Rat reactivity reported in scientific literature (PMID:25724725). Transgenic C. elegans reactivity reported in scientific literature (PMID: 27110099). Zebrafish reactivity reported in scientific literature (PMID: 28106108). Known cross reactivity with wt and all variants such as rGFP, eGFP, S65T-GFP, RS-GFP, YFP and EGFP.
Specificity/Sensitivity	Anti-GFP antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (Aequorea victoria) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum and purified and partially purified Green Fluorescent Protein (Aequorea victoria). Primate reactivity reported in scientific literature (PMID: 27723741).
Immunogen	Green fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish Aequorea victoria.
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, ELISA, Electron Microscopy, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunomicroscopy, Immunoprecipitation, In-situ Hybridization, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot 1:500-1:5000, Chromatin Immunoprecipitation 1:10-1:500, Flow Cytometry 1:1:10 - 1:1000, ELISA 1:20000-1:120000, Immunohistochemistry 1:200-1:3000, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:50-1:250, In-situ Hybridization, Immunomicroscopy, Electron Microscopy, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount

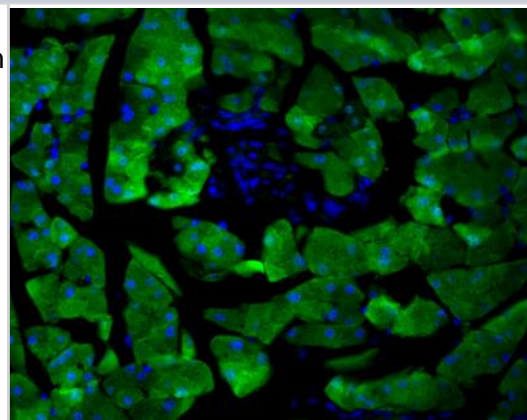


Application Notes

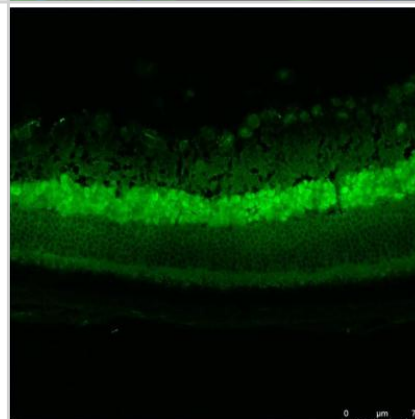
IF (PMID: 21855203), IP (PMID: 20427314 and PMID: 22298427), ChIP (PMID: 21952049), In-situ Hybridization (PMID: 22340499), Immunohistochemistry-frozen (PMID: 22464327), Electron Microscopy (PMID: 23873149), Immunohistochemistry-whole mount (PMID 24703763) and Immunohistochemistry-free floating reported in scientific literature (PMID 26639405).

Images

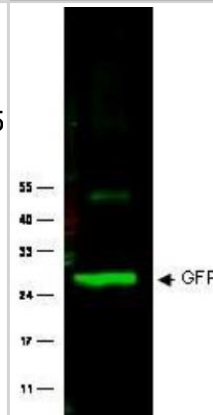
Immunocytochemistry/Immunofluorescence: GFP Antibody [NB600-308]
- Analysis of GFP in transgenic mouse pancreas in OCT. The blue region in the center is an islet which does not express GFP and is negative.
Image from verified customer review.



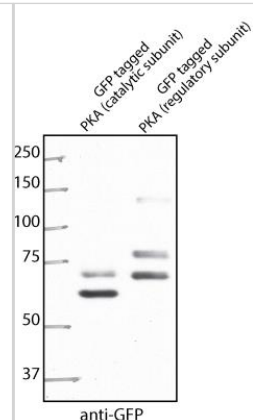
Immunocytochemistry/Immunofluorescence: GFP Antibody [NB600-308]
- Analysis of GFP in mouse retinal cells. Image courtesy of anonymous customer review.



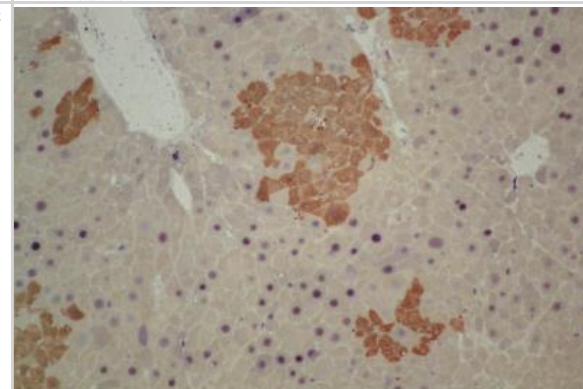
Western Blot: GFP Antibody [NB600-308] - Wild type GFP (0.1 ug) was used to spike HeLa whole cell lysate. Load: 30 ug per lane. Primary antibody: GFP antibody at 1:1000 for overnight at 4C. Secondary antibody: IR Dye800 Goat-anti-Rabbit IgG [H&L] MX10 at 1:10,000 for 45 min at RT. Block: 5% BLOTTO in PBS overnight at 4C. Predicted/Observed size: 27 kDa for epitope tag GFP. Other band(s): none.



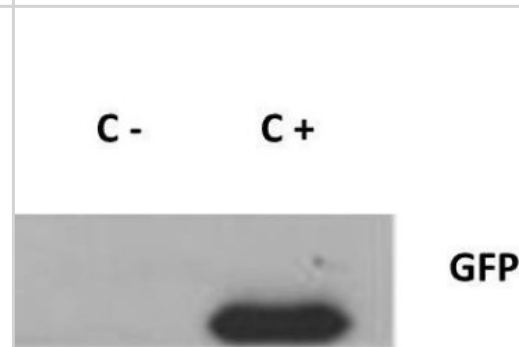
Western Blot: GFP Antibody [NB600-308] - analysis of GFP tagged PKA subunits over-expressed in HEK293T cells using GFP antibody. Image from verified customer review.



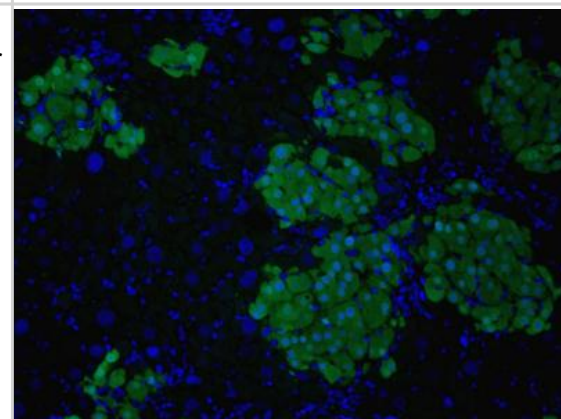
Immunohistochemistry-Paraffin: GFP Antibody [NB600-308] - Staining of GFP+ hepatocytes (brown) transplanted into the liver of a recipient animal using anti-GFP antibody. Cyclin D1 double staining in blue. Image from verified customer review.



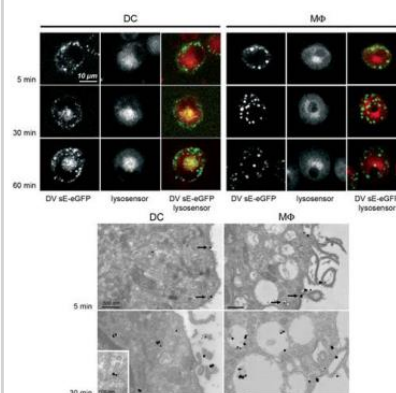
Western Blot: GFP Antibody [NB600-308] - Lane 1: 293FT cells transfected with CDK4 dominant negative (C-). Lane 2: 293FT cells positive control (C+). Load: 25 ug per lane. Primary antibody: GFP antibody at 1:400 for overnight at 4C. Secondary antibody: IR Dye800 rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4C. Predicted/Observed size: 27 kDa for GFP.



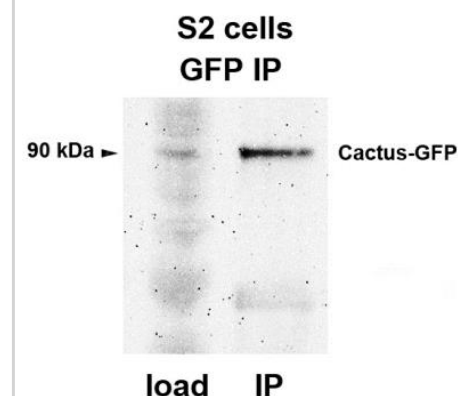
Immunocytochemistry/Immunofluorescence: GFP Antibody [NB600-308] - Analysis of GFP in rat liver. Image courtesy of an anonymous customer review.



Immunomicroscopy: GFP Antibody [NB600-308] - Monocyte derived dendritic cells and dermal macrophages were challenged and directly visualized with eGFP labeled Dengue virus to localize sequestration of virus particles in the different cells (upper). The location of the GFP was confirmed by TEM (lower magnified view) using rabbit anti GFP Primary antibody (1:200) and a gold labeled secondary antibody. As referenced in: Kwan W-H, Navarro-Sanchez E, Dumortier H, Decossas M, Vachon H, et al. (2008) Dermal-Type Macrophages Expressing CD209/DC-SIGN Show Inherent Resistance to Dengue Virus Growth. PLoS Negl Trop Dis 2(10): e311. doi:10.1371/journal.pntd.0000311



Immunoprecipitation: GFP Antibody [NB600-308] - IP analysis of GFP in S2 Cells (Drosophila). Image from verified customer review.



Publications

Patra C, Kontarakis Z, Kaur H et al. The zebrafish ventricle: A hub of cardiac endothelial cells for in vitro cell behavior studies. *Sci Rep.* 2017 Jun 02 [PMID: 28578380] (IHC, Zebrafish)

Stauffer BB, Cui G, Cottrill KA et al. Bacterial Sphingomyelinase is a State-Dependent Inhibitor of the Cystic Fibrosis Transmembrane conductance Regulator (CFTR). *Sci Rep.* 2017 Jun 07 [PMID: 28592822] (ELISA, Xenopus)

Tsukamoto T, Gearhart MD, Spike CA et al. LIN-41 and OMA Ribonucleoprotein Complexes Mediate a Translational Repression-to-Activation Switch Controlling Oocyte Meiotic Maturation and the Oocyte-to-Embryo Transition in *Caenorhabditis elegans*. *Genetics.* 2017 Jun 01 [PMID: 28576864] (WB, *C. elegans*)

Knutson AK, Egelhofer T, Rechtsteiner A, Strome S. Germ Granules Prevent Accumulation of Somatic Transcripts in the Adult *Caenorhabditis elegans* Germline. *Genetics.* Mar 3 2017 12:00AM [PMID: 28258184] (ICC/IF, *C. elegans*)

Witzel HR, Cheedipudi S, Gao R et al. Isl2b regulates anterior second heart field development in zebrafish *Sci Rep* Jan 20 2017 12:00AM [PMID: 28106108] (ICC/IF, Zebrafish)

Davidson R, Pontasch JA, Wu JQ. Sbg1 Is a Novel Regulator for the Localization of the β -Glucan Synthase Bgs1 in Fission Yeast. *PLoS ONE.* Nov 29 2016 12:00AM [PMID: 27898700] (IP, WB, Yeast)

Yovchev MI, Oertel M. Fetal Liver Stem/Progenitor Cell Transplantation: A Model to Study Tissue Mass Replacement and Cell-Based Therapies. *Methods Mol. Biol.* Nov 10 2016 12:00AM [PMID: 27830548]

Lee JJ, Rothenberg ME, Seeley ES et al. Control of inflammation by stromal Hedgehog pathway activation restrains colitis. *Proc. Natl. Acad. Sci. U.S.A.* Nov 22 2016 12:00AM [PMID: 27815529] (Mouse)

Bao K, Carr T, Wu J et al. BATF Modulates the Th2 Locus Control Region and Regulates CD4+ T Cell Fate during Antihelminth Immunity. *J. Immunol.* Oct 26 2016 12:00AM [PMID: 27798167] (IHC, Jellyfish)

Shiba Y, Gomibuchi T, Seto T et al. Allogeneic transplantation of iPS cell-derived cardiomyocytes regenerates primate hearts. *Nature* Oct 10 2016 12:00AM [PMID: 27723741] (IHC-P, Primate)

Li M, Bian C, Yu X. Poly(ADP-ribosyl)ation is recognized by ECT2 during mitosis. *Cell Cycle* 2014 [PMID: 25486481] (WB)

Ahn JH, Rechsteiner A, Strome S, Kelly WG. A Conserved Nuclear Cyclophilin Is Required for Both RNA Polymerase II Elongation and Co-transcriptional Splicing in *Caenorhabditis elegans*. *PLoS Genet.* Aug 1 2016 12:00AM [PMID: 27541139] (ICC/IF, IP)

More publications at <http://www.novusbio.com/NB600-308>





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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-34923-10ug	Recombinant GFP Protein

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