

Product Datasheet

GFP Antibody NB100-1771SS

Unit Size: 0.02 ml

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

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Publications: 5

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NB100-1771SS

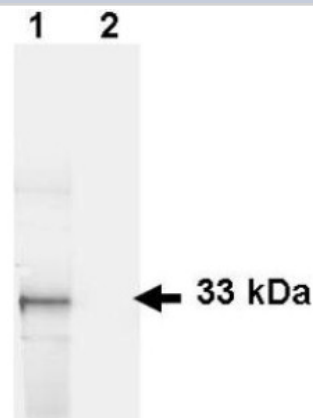
GFP Antibody [FITC]

Product Information	
Unit Size	0.02 ml
Concentration	1.0 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
Conjugate	FITC
Purity	IgG purified
Buffer	0.02M Potassium phosphate, 0.15M sodium chloride, [pH7.2], 10mg/ml BSA
Product Description	
Host	Goat
Species	Non-species specific
Species Reactivity	This antibody is designed to detect GFP and its variants. No reaction was observed against Human, Mouse and Rat Serum Proteins.
Specificity/Sensitivity	GFP. Novus recommends using the monoclonal (NB600-597) for the detection of wild type or recombinant GFP, as NB100-1771 does not sufficiently detect "enhanced" GFP.
Immunogen	Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish, <i>Aequorea victoria</i> .
Product Application Details	
Applications	Western Blot, Fluorophore-linked immunosorbent assay, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Frozen, Proximity Ligation Assay
Recommended Dilutions	Flow Cytometry 1:10-1:1000, Fluorophore-linked immunosorbent assay 1:20000, Immunocytochemistry/Immunofluorescence 1:500-1:2500, Immunohistochemistry-Frozen, Proximity Ligation Assay, Western Blot 1:10000
Application Notes	Use in Flow Cytometry reported in scientific literature (PMID: 23682015). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 24056230) Use in Proximity Ligation Assay reported in scientific literature (PMID 24470503)

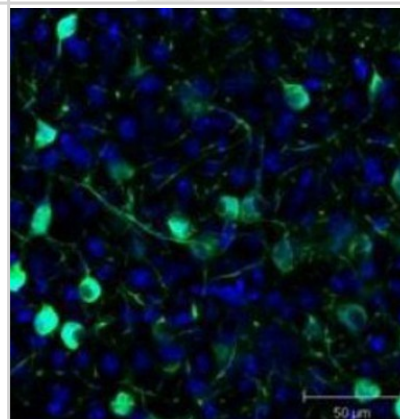


Images

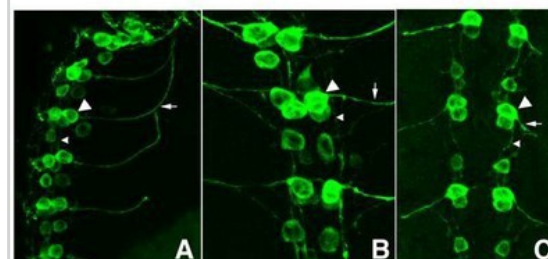
Western Blot: GFP Antibody [FITC] [NB100-1771] - Lane 1: HeLa cells. Lane 2: mock transfected HeLa cell lysate. Load: 35 ug per lane. Primary antibody: GFP antibody at 1ug/mL for 1 h at room temperature. Secondary antibody: IRDye(R) 800 conjugated Donkey-a-Goat IgG [H&L] MX7 secondary antibody at 1:2,500 for 45 min at RT. Block: 5% BLOTTO overnight at 4C. Predicted/Observed size: 27 kDa, 33 kDa for GFP.



Immunocytochemistry/Immunofluorescence: GFP Antibody [FITC] [NB100-1771] - Sf-1+ neurons and their processes of the ventromedial nucleus of the hypothalamus in *Mus musculus* (coronal view, 20X magnification). Briefly, Sf-1:Cre mice were crossed to the Z/EG reporter line. Brains were harvested following cardiac perfusion with 4%PFA/PBS with o/n fixation, and subsequently transferred to a 30% sucrose solution. Brains were then frozen in OCT freezing medium and cryostat sectioned at 40 microns. Goat anti-GFP was used at 1:500 dilution in free floating immunohistochemistry to detect eGFP. Fluorochrome conjugated anti-goat IgG secondary antibody was used for detection at 1:500. Sections were counterstained with DAPI.



Immunocytochemistry/Immunofluorescence: GFP Antibody [FITC] [NB100-1771] - GFP antibody at a 1:1,000 dilution detects tau-GFP in cell bodies (large arrowhead) and axons of motorneurons (arrow) and interneurons (small arrowhead) in *Drosophila melanogaster* late stage embryonic central nervous system. Fluorochrome conjugated anti-Goat secondary antibody was used for detection at 1:300. Panel A shows a lateral view (ventral left) and Panels B and C show ventral views of whole mount embryos at 63x magnification (plus 2x digital zoom). In all panels, anterior is up.



Publications

Hauser J, Grundstrom C, Grundstrom T. Allelic Exclusion of IgH through Inhibition of E2A in a VDJ Recombination Complex. *J. Immunol.* 2014 Feb 24 [PMID: 24470503] (PLA)

Freeman K, Tao W, Sun H et al. In situ three-dimensional reconstruction of mouse heart sympathetic innervation by two-photon excitation fluorescence imaging. *J Neurosci Methods.* 2013 Sep 19 [PMID: 24056230] (IHC-Fr, ICC/IF)

Lampron A, Pimentel-Coelho PM, Rivest S. Migration of bone marrow-derived cells into the CNS in models of neurodegeneration. *J Comp Neurol* 2013 May 16 [PMID: 23682015] (FLOW)

Yee, Min et al. Type II epithelial cells are critical target for hyperoxia-mediated impairment of postnatal lung development. *Am J Physiol Lung Cell Mol Physiol* 291: L1101-L1111. 2006 [PMID: 16861382]

Hauser J, Sveshnikova N, Wallenius A, Baradaran S, Saarikettu J, Grundstrom T. B-cell receptor activation inhibits AID expression through calmodulin inhibition of E-proteins. *PNAS*, 2008;105(4):1267-72. 29-Jan. [PMID: 18203819]



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

