

GFP Antibody | anti-GFP antibody

GFP antibody (biotin)

CATALOG # AAA75019	REACTIVITY Assay by immunoelectrophoresis resulted in a single precipitation arc against anti-goat serum, anti-biotin and purified and partially purified green fluorescent protein (Aequorea victoria) Serum. no reaction was observed against Human, Mouse, and Rat ser
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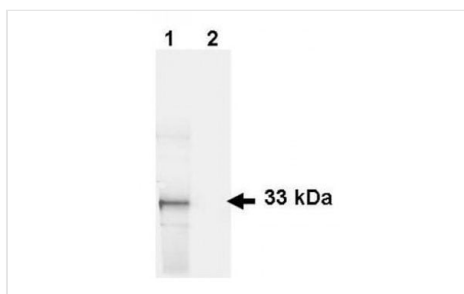
PRODUCT SYNONYMS

GFP; GFP antibody (biotin); Polyclonal GFP; Anti-GFP; Green Fluorescent Protein; GFP conjugate; anti-GFP antibody

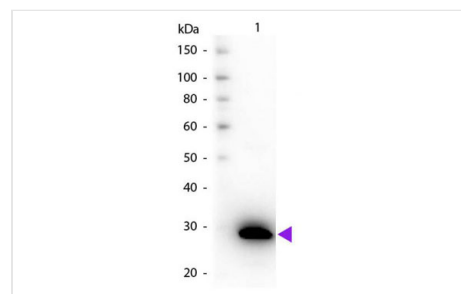
PRODUCT SPECIFICATIONS

Reactivity	Assay by immunoelectrophoresis resulted in a single precipitation arc against anti-goat serum, anti-biotin and purified and partially purified green fluorescent protein (Aequorea victoria) Serum. no reaction was observed against Human, Mouse, and Rat ser
Specificity	Jellyfish GFP
Form/Format	Lyophilized from 20mM potassium phosphate, 150mM sodium chloride, pH 7.2 with 0.01% sodium azide as preservative. Stabilizer: 10mg/ml BSA-immunoglobulin and Protease free. Reconstitute with 1ml of deionized water.
Concentration	1.0mg/ml, lyophilized (varies by lot)
Immunogen	Recombinant Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from jellyfish Aequorea victoria.
Tag	Biotin
Method of Purification	GFP antibody (biotin) was purified by affinity chromatography.
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.
Biological Significance	Green fluorescent protein is a 27 kDa protein produced from the jellyfish Aequorea victoria, which emits green light (emission peak at a wavelength of 509nm) when excited by blue light. GFP is an important tool in cell biology research. GFP is widely used enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining.
Preparation and Storage	Ships ambient or refrigerated. Upon receipt store at 4°C prior to reconstitution. For long term storage, reconstitute, aliquot, and freeze at -20°C. Avoid repeated freeze-thaw cycles.

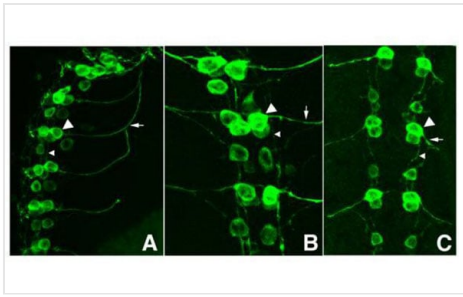
IMAGES


WB (Western Blot)

Western Blot of GFP antibody. Lane 1: HeLa cells. Lane 2: mock transfected HeLa cell lysate. Load: 35 ug per lane. GFP antibody at 1 ug/ml for 1 h at room temperature. IRDye 800 conjugated Donkey-a-Goat IgG [H&L] MX7 (605-732-125) secondary antibody at 1:2,500 for 45 min at RT. Block: 5% Blocking buffer overnight at 4 deg C. Size: 27 kDa, 33 kDa for GFP..

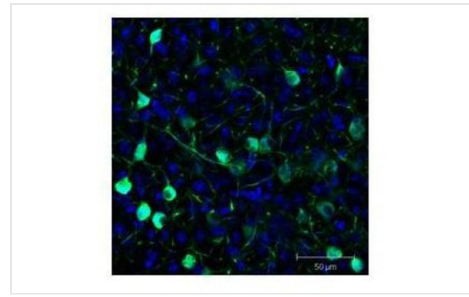

WB (Western Blot)

Western blot of Biotin GFP antibody. Lane 1: GFP. Lane 2: None. Load: 50 ng per lane. GFP antibody Biotin conjugated at 1:1,000 for 60 min at RT. Peroxidase streptavidin secondary antibody at 1:40,000 for 30 min at RT. Blocking: Blocking buffer for 30 min at RT. Size: 28 kDa, 28 kDa for GFP..



IF (Immunofluorescence)

Tissue: *Drosophila melanogaster* late stage embryonic central nervous system. Fixation: 0.5% PFA. Antigen retrieval: not required. Anti-GFP antibody at a 1:1,000 for 1 h at RT. AlexaFluor 488 conjugated anti-Goat antibody at 1:300 for 45 min at RT. Panel A: shows a lateral view (ventral left). Panels B and C: shows ventral views of whole mount embryos at 63x magnification (plus 2x digital zoom). In all panels, anterior is up. Staining: tau-GFP cell bodies (large arrowhead) and axons of motoneurons (arrow) and interneurons (small arrowhead) as green fluorescent signal.



IF (Immunofluorescence)

issue: Sf-1:Cre mice crossed to the Z/EG reporter line. Mouse brain (coronal view, 20X magnification). Fixation: 4%PFA/PBS with o/n fixation, and subsequently transferred to a 30% sucrose solution. Antigen retrieval: frozen in OCT freezing medium (Sakura) and cryostat sectioned at 40 microns. Goat anti-GFP was used at 1:500 dilution in free floating immunohistochemistry to detect GFP. Fluorochrome conjugated Anti-goat IgG secondary antibody was used for detection at 1:500 at 1:10,000 for 45 min at RT. Localization: Sf-1+ neurons and their processes of the ventromedial nucleus of the hypothalamus. Staining: eGFP as green fluorescent signal and sections were counterstained with DAPI.

ADDITIONAL INFORMATION

Related Product Information for anti-GFP antibody	Goat polyclonal GFP antibody (biotin) conjugated
Product Categories/Family for anti-GFP antibody	Conjugated Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	1169893
NCBI Official Full Name	Green fluorescent protein
UniProt Protein Name	Green fluorescent protein
UniProt Gene Name	GFP
UniProt Entry Name	GFP_AEQVI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/goat-human-mouse-rat-antibody/gfp/75019>