

Mouse anti-Human GFP Tag Monoclonal Antibody

GFP Tag Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283507	Mouse	Human	Western Blot, ELISA, Immunofluorescence

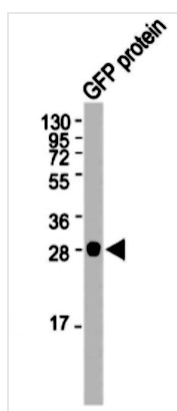
PRODUCT SYNONYMS

GFP Tag; Monoclonal Antibody; GFP Tag Antibody; anti-GFP Tag antibody

PRODUCT SPECIFICATIONS

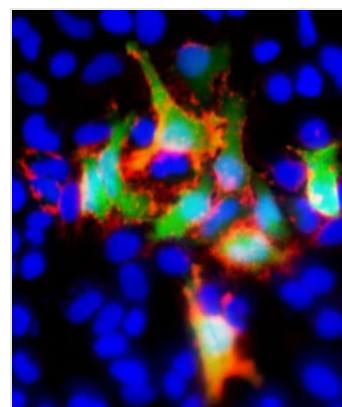
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Specificity	Purified His-tagged GFP protein was used to produced this monoclonal antibody.
Purity/Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Applicable Applications for anti-GFP Tag antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-GFP Tag Antibody at dilution + GFP protein whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



IF (Immunofluorescence)

Immunofluorescent analysis of GFP using either natural fluorescence (green) or an GFP antibody (red) in HeLa(human cervical epithelial adenocarcinoma cell line) cells transfected with GFP recombinant protein. Formalin-fixed cells were permeabilized with 0. 1% Triton X-100 for 10 minutes at room temperature and blocked with 3% BSA for 30 minutes at room temperature. Cells were probed with an GFP monoclonal antibody (Product # AAA283507) at a dilution of 1:25 for 1 hour at 37°C, and incubated with DyLight 555 goat anti-mouse IgG secondary antibody (Product # please inquire) at a dilution of 1:200 for 60 minutes at 37°C. The nuclear counter stain is DAPI (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-GFP Tag antibody	Green fluorescent protein (GFP), originally isolated from the jellyfish Aequorea victoria, is one of the best visual reporters for monitoring gene expression in vivo and in situ. GFP is a also convenient marker for use in flow cytometry because it eliminates the need to incubate with a secondary reagent (such as dyes or antibodies) for detection. However, anti-GFP antibody is also widely used for co-immunoprecipitation, co-localization or western blotting for the confirmation of specificity when a GFP fusion protein is expressed in cells. AAA Biotech's anti-GFP monoclonal antibody provides a simple solution to detect the expression of a GFP-tagged protein in cells. Because of its ability to spontaneously generate its own fluorophore, the green fluorescent protein (GFP) from the jellyfish Aequorea victoria is used extensively as a fluorescent marker in molecular and cell biology. The yellow fluorescent proteins (YFPs) have the longest wavelength emissions of all GFP variants examined to date. This shift in the spectrum is the result of a T203Y substitution (single-letter amino acid code), a mutation rationally designed on the basis of the X-ray structure of GFP S65T. AAA Biotech's anti-GFP monoclonal antibody can detect both GFP and YFP but not BFP (Blue fluorescent protein) by western blotting.
Product Categories/Family for anti-GFP Tag antibody	Crown Antibodies
References	Ward, W. W., et al.(1980) Photochem. Photobiol. 31:611

NCBI AND UNIPROT INFORMATION

Molecular Weight	27 k kDa
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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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/gfp-tag-antibody-western-blot-immunofluorescence-elisa/283507>