

Mouse Green Fluorescent Protein (GFP) Monoclonal Antibody | anti-GFP antibody

Green Fluorescent Protein (GFP)

CATALOG # AAA76632	HOST Mouse	APPLICATIONS Immunofluorescence, Western Blot, Immunocytochemistry
------------------------------	----------------------	--

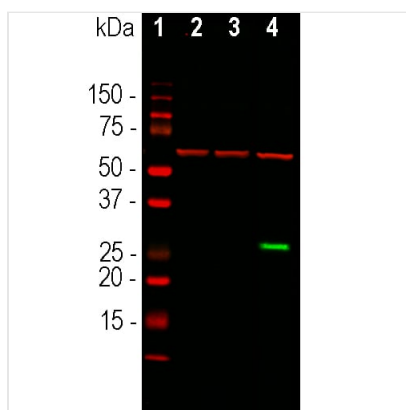
PRODUCT SYNONYMS

Green Fluorescent Protein (GFP); Monoclonal Antibody; anti-GFP antibody

PRODUCT SPECIFICATIONS

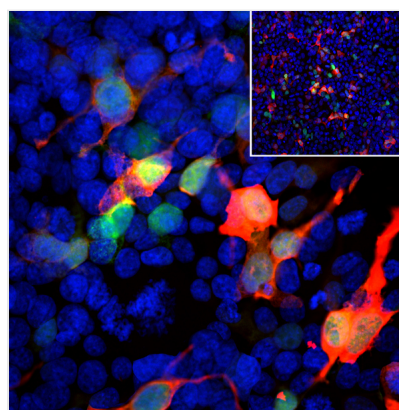
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgM
Form/Format	Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-GFP antibody	IF (Immunofluorescence), WB (Western Blot), ICC (Immunocytochemistry)
Immunogen	Recombinant GFP purified from E Coli. The epitope is in the N-terminal 18 amino acids of the protein, the peptide MVSKGAELFTGIVPILIE, which is found in the Clontech and other GFP vectors
Preparation and Storage	Antibody can also be aliquotted and stored frozen at -20 degree C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2-8 degree C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of transfected and control HEK293 cell lysates using mouse mAb to GFP, MO22190, in green, dilution 1:1,000: [1] protein standard, [2] Control, non-transfected cells, [3] cells transfected with an mCherry red fluorescent protein construct and [4] cells transfected with GFP construct. The strong green band at ~27kDa corresponds to GFP protein detected only in cells transfected with GFP construct, the antibody does not bind to mCherry.



IF (Immunofluorescence)

Immunofluorescent analysis of transfected HEK293 cells transfected with a GFP construct and stained with mouse mAb to GFP, MO22190, dilution 1:1,000, in red. The blue is Hoechst staining of nuclear DNA. The GFP antibody binds to GFP protein expressed only in transfected cells, and as a result cells are appeared in orange-golden color.

ADDITIONAL INFORMATION

Related Product Information for anti-GFP antibody	The green fluorescent protein (GFP) is a 27kDa protein isolated originally from the jellyfish Aequoria victoria. It has an endogenous fluorochrome activity with excitation maximum at 395nm and emission maximum at 509nm, which is similar to that of fluorescein. The GFP gene was sequenced and the origin of the fluorochrome by autocatalytic activity of certain amino acids was discovered. Much interest in GFP was generated when it was shown that fluorescence develops rapidly when the protein is expressed and requires only molecular oxygen and no other cofactors. As a result GFP can be expressed in fluorescent form in essentially any prokaryotic or eukaryotic cell. GFP has been engineered to produce a vast number of variously colored mutants including blue, cyan and yellow protein derivatives, BFP, CFP and YFP. GFP and other fluorescent proteins derived from other Cnidarians (jellyfish, coral and medusa) are widely used as tracers in transfection and transgenic experiments to monitor gene expression and protein localization in vivo and in in vitro. The crystal structure of GFP was determined which allowed amino acid modifications to improve spectral properties and prevent multimerization.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	1169893
UniProt Accession #	P42212; Q17104; Q27903; Q93125
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/monoclonal/green-fluorescent-protein-gfp-antibody-immunofluorescence-western-blot-immunocytochemistry-elisa/76632>