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Mouse anti GFP-Tag mAb

Catalog No.: AE138

Basic Information

Observed MW
27kDa

Calculated MW
27kDa

Category
Tag antibody

Applications
WB,IF/ICC,IP

Cross-Reactivity
Species independent

CloneNo number
AMC50069

Background

The green fluorescent protein (GFP) is a protein composed of 238 amino acid residues (26.9 kDa) that exhibits bright green fluorescence when exposed to light in the blue to ultraviolet range. Although many other marine organisms have similar green fluorescent proteins, GFP traditionally refers to the protein first isolated from the jellyfish Aequorea victoria. The GFP from A. victoria has a major excitation peak at a wavelength of 395 nm and a minor one at 475 nm. Its emission peak is at 509 nm, which is in the lower green portion of the visible spectrum. The GFP from the sea pansy (Renilla reniformis) has a single major excitation peak at 498 nm. GFP makes for an excellent tool in many forms of biology due to its ability to form internal chromophore without requiring any accessory cofactors, gene products, or enzymes / substrates other than molecular oxygen.In cell and molecular biology, the GFP gene is frequently used as a reporter of expression. It has been used in modified forms to make biosensors, and many animals have been created that express GFP, which demonstrates a proof of concept that a gene can be expressed throughout a given organism, in selected organs, or in cells of interest. GFP can be introduced into animals or other species through transgenic techniques, and maintained in their genome and that of their offspring. To date, GFP has been expressed in many species, including bacteria, yeasts, fungi, fish and mammals, including in human cells.

Recommended Dilutions

WB	1:10000 - 1:40000
IF/ICC	1:100 - 1:400
IP	0.5μg-4μg antibody for 100μg-300μg extracts of whole cells

Immunogen Information

Gene ID

Swiss Prot
P42212

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
GFP;GFP tag;GFP-tag

Contact

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Product Information

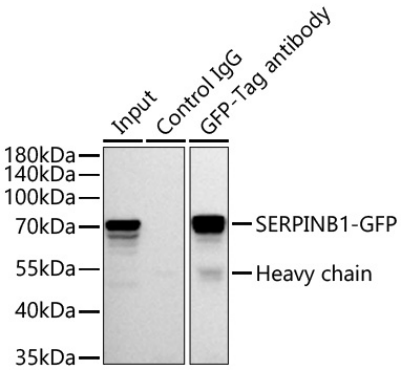
Source
Mouse

Isotype
IgG2a

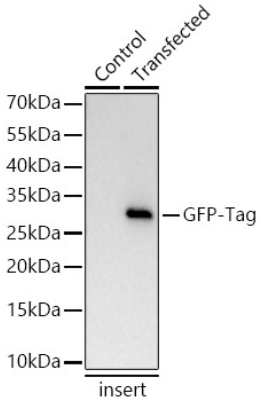
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

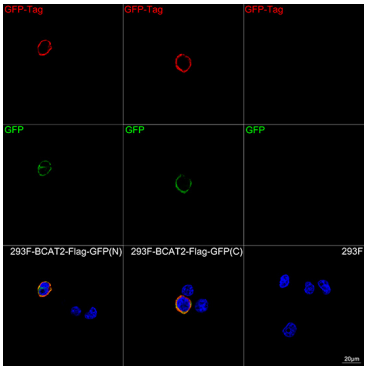
Validation Data



Immunoprecipitation of SERPINB1-GFP from 200 µg extracts of 293T cells transfected with a SERPINB1 expression vector containing a single C-terminal GFP-Tag was performed using 0.5 µg of GFP-Tag Mouse mAb (AE138). Mouse IgG isotype control (AC011) was used to precipitate the Control IgG sample. The IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using GFP-Tag Mouse mAb (AE012) at a dilution of 1:5000.



Western blot analysis of lysates from wild type (WT) and insert cells transfected with GFP-Tag using GFP-Tag Mouse mAb (AE138) at 1:18000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.
Lysates/proteins: 10 ng per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



Confocal imaging of 293F cells transfected with BCAT2-Flag-GFP-C, 293F cells transfected with BCAT2-Flag-GFP-N and 293F cells using GFP-Tag Mouse mAb (AE138, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Mouse IgG (H+L) (AS008, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.