

GFP-tag (3A10) monoclonal antibody

Catalog: BCP1113

Host: Mouse

Reactivity: All

BackGround:

Green fluorescent protein (GFP) is a 27 kDa protein derived from the jellyfish *Aequorea victoria*, which emits green light (emission peak at a wavelength of 509 nm) when excited by blue light (excitation peak at a wavelength of 395 nm). GFP has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining. Other applications of GFP include assessment of protein-protein interactions through the yeast two-hybrid system and measurement of distance between proteins through fluorescence energy transfer (FRET) protocols.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

N/A

Swiss-Prot:

N/A

Purification&Purity:

Antibodies were immunoaffinity purified using the peptide conjugated to a solid-phase support and conjugated to horseradish peroxidase. The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1:5000~1:10000

IP: 1:100-500

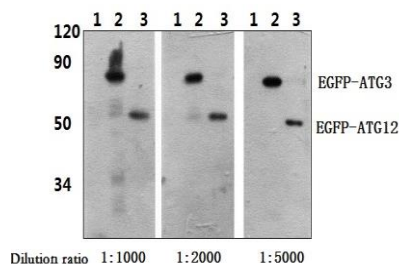
Storage&Stability:

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

Specificity:

GFP-tag (3A10) mAb detects over-expressed or recombinant proteins containing the GFP epitope tag.

DATA:

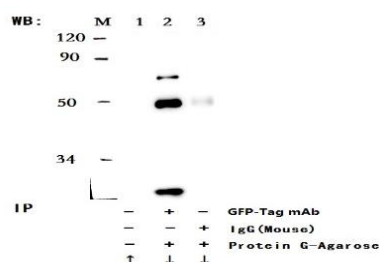


Western blot (WB) analysis of GFP-tag (3A10) mAb-HRP at 1:2000/1:5000/1:10000 dilution

Lane1:HEK293T whole cell lysate

Lane2:HEK293T whole cell lysate,transfected with pEGFP-C3-ATG3.

Lane3:HEK293T whole cell lysate,transfected with pEGFP-C3-ATG12.



Immunoprecipitation of HEK293T,transfected with pEGFP-C3-ATG3#PPL00361-2a, cell lysates using GFP-tag (3A10) mAb (Sepharose Bead Conjugate)#BD0047 (lane 2)and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0047 (lane 3) .Lane 1 is 30% input. The western blot was probed using GFP-tag (3A10) mAb.

“ ↑ ” (supernatant); “ ↓ ” (deposition)

Note:

For research use only, not for use in diagnostic procedure.