

10-6503: Mouse Monoclonal Antibody to GFP Tag (Clone: 168AT1211)(Discontinued)

Clonality : Monoclonal
Clone Name : 168AT1211
Application : WB
Reactivity : Human
Gene : egfp
Uniprot ID : C5MKY7
Format : Purified
Isotype : Mouse IgG1

Description

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 also a 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. 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. Anti-GFP monoclonal antibody can detect both GFP and YFP but not BFP (Blue fluorescent protein) by western blotting.

Product Info

Amount : 50 µl / 200 µl
Purification : Protein G Chromatography
Content : Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage condition : Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles.

Application Note

WB~1:2000-4000

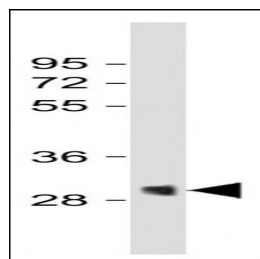


Figure 1: Anti-GFP Tag Antibody (10-6503) at 1:2000 dilution + GFP protein Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa.

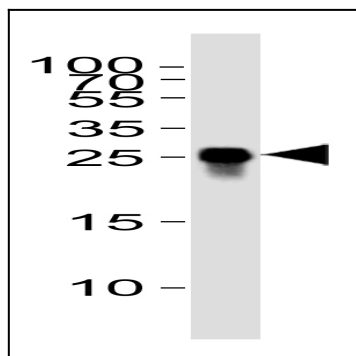


Figure 2: Western blot analysis of lysate from GFP protein, using GFP Tag Antibody(10-6503). GFP Tag Antibody was diluted at 1:4000. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35 μ g.