

GFP-Tag Antibody (Monoclonal)

Catalog Number:	1005-M1-GFP
Product Specification:	Green Fluorescent Protein-Tag (GFP-Tag) Antibody raised in mouse
Size:	100 µl
Type:	Monoclonal
Sub- Type:	Protein-Tag Antibody
Specificity:	Detects GFP (Green Fluorescent Protein) and GFP-fusion proteins from all the species
Host Species:	Mouse
Species Cross-reactivity:	All
Immunogen:	Full-length recombinant GFP (Green Fluorescent Protein)
Isotype:	IgG1
Clone Number:	7G9
Western Blot:	1: 5000
Immuno-fluorescence:	1: 500
Immuno-precipitation:	1: 50
ELISA:	1:2000
Storage:	-20°C in aliquots. Freeze-thaw cycles must be avoided once the stock aliquot is diluted.
Form:	Liquid
Secondary Antibody (Recommended):	Use anti-mouse IgG raised in rabbit, goat or donkey

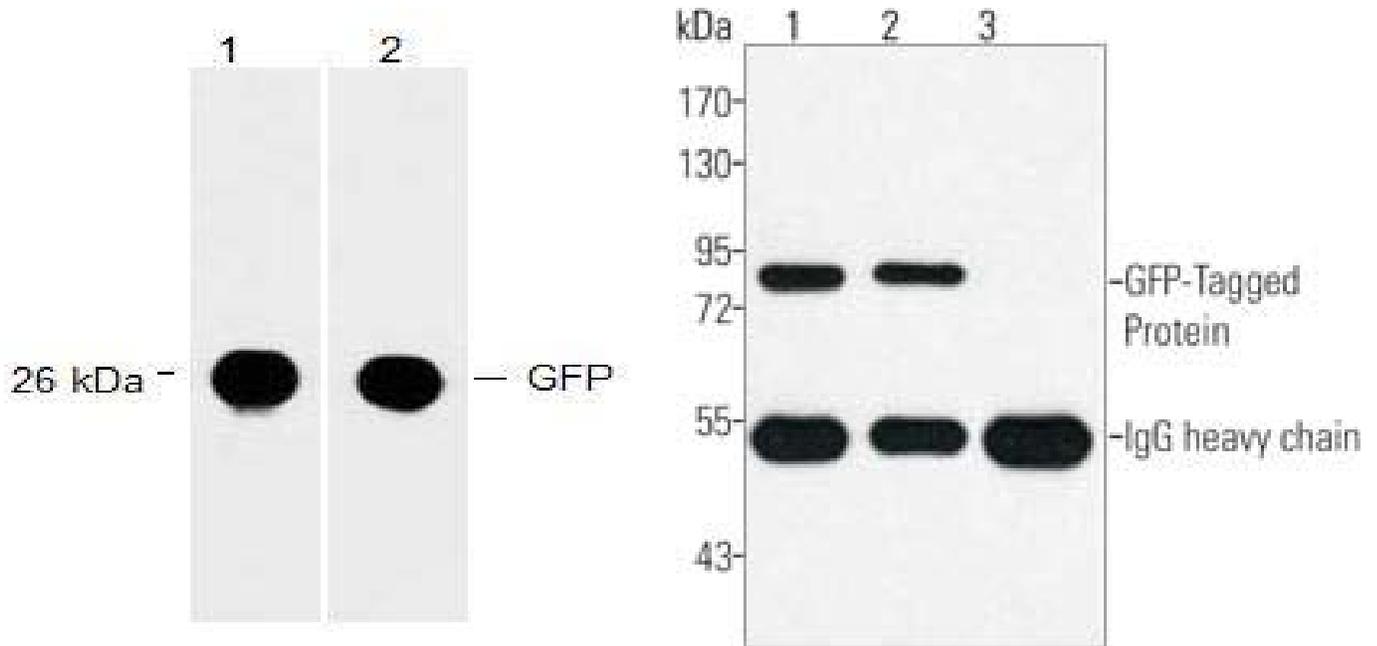
Product Background:

The green fluorescent protein (GFP) was originally identified as a protein involved in the bioluminescence of the jellyfish *Aequorea victoria*. GFP cDNA produces a fluorescent product

when expressed in prokaryotic cells, without the need for exogenous substrates or cofactors, making GFP a useful tool for monitoring gene expression and protein localization in vivo. Several GFP mutants have been developed, including EGFP, which fluoresce more intensely than the wildtype GFP and have shifted excitation maxima, making them useful for FACS and fluorescence microscopy as well as double-labeling applications. GFP is widely used in expression vectors as a fusion protein tag, allowing expression and monitoring of heterologous proteins fused to GFP.

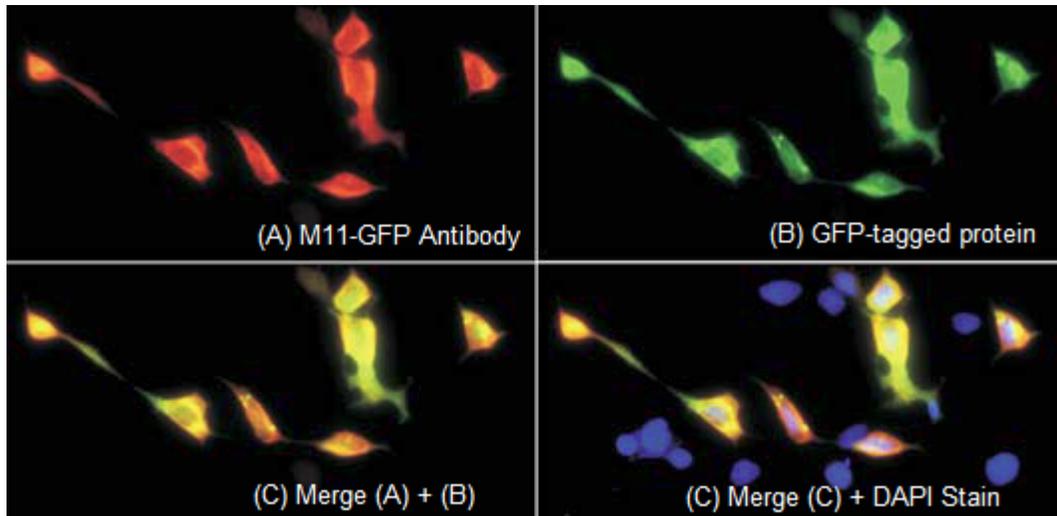
References: Prasher, D.C., et al. 1992. Primary structure of the Aequorea victoria green fluorescent protein. *Gene* 111: 229-233; Chalfie, M., et al. 1994. Green fluorescent protein as a marker for gene expression. *Science* 263: 802-805.

Applications:



WB analysis of over-expressed GFP-tagged protein in 293T cell lysate, using Alamo Labs' Mouse mAb (**Cat # 1005-M1-GFP**) at 1:5000 dilution (Blot-1) and 1:10,000 (Blot-2). In each blot, 10 µg of cell lysate/lane was loaded.

Immunoprecipitation (IP) of extracts from 293T cells transfected (Lanes 1 and 2) with a GFP-tagged protein and a mock transfection (Lane 3, using the same protein without the GFP tag), using Mouse mAb (**Cat # 1005-M1-GFP**) and probed on Western blot using the same antibody. **IP** Antibody Dilution was 1:50 (Lanes 1 & 3) and 1:100 (Lane 2).



Immunofluorescence (IF) Analysis of 293T cells transfected (left) with a GFP-tagged protein using GFP-Tag Mouse mAb (Cat # 1005-M1-GFP) at 1:500 dilution.

Related Products:

- 1001-A1-His His-Tag: Antibody (Rabbit Polyclonal) Aff Pure
- 1001-M1-HIS His-Tag: Antibody (Mouse Monoclonal)
- 1002-M1-MYC Myc-Tag: Antibody (Mouse Monoclonal)
- 1003-M1-GST GST-Tag (Glutathionine-S-transferase): Antibody (Mouse Monoclonal)
- 1004-M1-HA HA-Tag (Influenza Hemagglutinin (HA) Peptide (YPYDVPDYA): Antibody (Mouse Monoclonal)
- 1006-M1-DYK DYKDDDDK-Tag: Antibody (Mouse Monoclonal)

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