Anti-GFP Antibody [B2-F7-C10]

M1004-8

Product Type:	Mouse monoclonal IgG, primary antibodies
Species reactivity:	Species independent
Applications:	WB
Molecular Wt:	26 kDa
Clone number:	B2-F7-C10

Description: 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.

Immunogen: Recombinant full length protein of Aequorea victoria GFP.

Positive control: K562 cell lysates transfected with GFP.

Database links: SwissProt: P42212 AequoreaVictoria

Recommended Dilutions:

WB	1:1,000-1:5,000

Storage Buffer: 1*TBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein G affinity purified.

Images

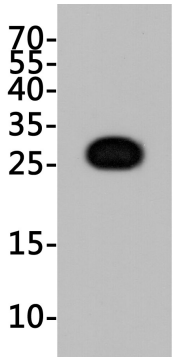

Fig1: Western blot analysis of GFP on K562 cell lysates transfected with GFP. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (M1004-8, 1/1000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature.

Background References

1. Yu, H. et al. 2016. AAV-Mediated Gene Transfer to Dorsal Root Ganglion. Methods in molecular biology (Clifton, N.J.). 1382: 251-61.
2. Yamaoka, M. et al. 2016. PI3K regulates endocytosis after insulin secretion by mediating signaling crosstalk between Arf6 and Rab27a. J. Cell. Sci. 129: 637-49.