Datasheet for ABIN129564

anti-GFP antibody (AA 246)

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Overview

Quantity:	1 mg
Target:	GFP
Binding Specificity:	AA 246
Reactivity:	Aequorea victoria
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GFP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	The immunogen is a GST- Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence derived from the jellyfish Aequorea victoria. Immunogentype:Recombinant
Clone:	9F9-F9
Isotype:	IgG
Cross-Reactivity:	recombinant GFP (rGFP), enhanced GFP (eGFP)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	GFP

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Target Details

Alternative Name:	GFP (GFP Products)
Background:	Mouse anti-GFP antibody is functional by western blot, ELISA, Immunofluorescene Micorscopy and Immunohistochemistry. Green fluorescent protein is a 27 kDa protein produced from the jellyfish Aequorea victoria, which emits green light (emission peak at a wavelength of 509nm) when excited by blue light. GFP is an important tool in cell biology research. GFP is widely used enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining. Synonyms: GFP, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, Aequorea victoria, Jellyfish.

Application Details

Application Notes:	Monoclonal anti-GFP is designed to detect enhanced GFP and GFP containing recombinant proteins. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated monoclonal anti-GFP is well suited to titrate GFP in a sandwich ELISA in combination with polyclonal anti-GFP (600-101-215) as the capture antibody. Only use the monoclonal form for the detection of enhanced or recombinant GFP. Polyclonal anti-GFP detects all variants of GFP tested to date. The biotin conjugated detection antibody is typically used with streptavidin conjugated HRP or other streptavidin conjugates. The use of polyclonal anti-GFP results in significant amplification of signal when fluorochrome conjugated polyclonal anti-GFP is used relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling

Storage:	-20 °C

Publications

Product cited in:

Žaja, Aydin, Lippok, Feederle, Lüscher, Feijs: "Comparative analysis of MACROD1, MACROD2 and TARG1 expression, localisation and interactome." in: **Scientific reports**, Vol. 10, Issue 1, pp. 8286, (2020) (PubMed).

Santos, Damásio, Kun-Rodrigues, Barbot, Sequeiros, Brás, Alonso, Guerreiro: "Novel MAG Variant Causes Cerebellar Ataxia with Oculomotor Apraxia: Molecular Basis and Expanded Clinical Phenotype." in: **Journal of clinical medicine**, Vol. 9, Issue 4, (2020) (PubMed).

Dohmen, Krieg, Agalaridis, Zhu, Shehata, Pfeiffenberger, Amelang, Bütepage, Buerova, Pfaff, Chanda, Geley, Preisinger, Sakamoto, Lüscher, Neumann, Vervoorts: "AMPK-dependent activation of the Cyclin Y/CDK16 complex controls autophagy." in: **Nature communications**, Vol. 11, Issue 1, pp. 1032, (2020) (PubMed).

Santos, Morais, Pereira, Sequeiros, Alonso: "Parkin truncating variants result in a loss-of-function phenotype." in: **Scientific reports**, Vol. 9, Issue 1, pp. 16150, (2019) (PubMed).

Khlghatyan, Evstratova, Chamberland, Marakhovskaia, Bahremand, Toth, Beaulieu: "Mental Illnesses-Associated Fxr1 and Its Negative Regulator Gsk3β Are Modulators of Anxiety and Glutamatergic Neurotransmission." in: **Frontiers in molecular neuroscience**, Vol. 11, pp. 119, (2018) (PubMed).

There are more publications referencing this product on: Product page

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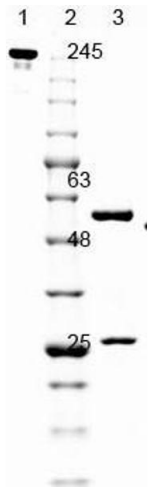
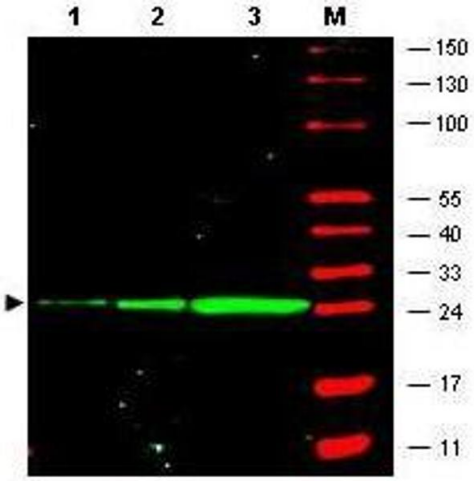


SDS-PAGE

Image 1. SDS PAGE of Mouse anti-GFP antibody. Lane 1: GFP non-reduced. Lane 2: Molecular Weight Markers. Lane 3: GFP reduced. Load: 10 µg per lane. Other band(s): none.

Western Blotting

Image 2. Western Blot of Mouse anti-GFP antibody. Lane 1: Molecular Weight Markers. Lane 2: GFP. Load: 10ng per lane. Primary antibody: Ms Anti-GFP antibody at 1:1000 for overnight at 4°C. Secondary antibody: Mouse HRP secondary antibody at 1:40,000 for 30 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 27 kDa, 27 kDa for epitope tag GFP. Other band(s): None.



Western Blotting

Image 3. Western Blot of monoclonal anti-GFP antibody. Lane 1: HeLa lysate 50 ng. Lane 2: HeLa lysate 100 ng. Lane 3: HeLa lysate 500 ng. Primary antibody: GFP antibody at 1.0 mg/ml for 1 h at room temperature. Secondary antibody: 800 conjugated Goat-a-Mouse IgG [H&L] MX10 at 1:2,500 dilution for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 27 kDa, 27 kDa for epitope tag GFP. Other band(s): none.

Please check the product details page for more images. Overall 4 images are available for ABIN129564.