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Datasheet for ABIN5596892
anti-GFP antibody (GFP tag)

4 Images

Overview

Quantity:	100 µg
Target:	GFP
Reactivity:	Aequorea victoria
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GFP antibody is conjugated to GFP tag
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: Recombinant Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246 aa) derived from the jellyfish Aequorea victoria. Immunogen Type: Recombinant Protein
Clone:	9F9-F9
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity is observed against recombinant Green Fluorescent Protein (000-001-215) from Aequorea victoria by both Western blot and ELISA. No reaction is seen against RFP.
Purification:	GFP Monoclonal Antibody was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum.

Target Details

Target:	GFP
Alternative Name:	GFP (GFP Products)
Target Type:	Viral Protein
Background:	<p>Synonyms: Green Fluorescent protein, GFP</p> <p>Background: Mouse anti-GFP antibody is functional by western blot, ELISA, Immunofluorescence Microscopy and Immunohistochemistry. Green fluorescent protein is a 27 kDa protein produced from the jellyfish <i>Aequorea victoria</i>, 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.</p>

Application Details

Application Notes:	<p>Flow Cytometry Dilution: User Optimized</p> <p>Immunohistochemistry Dilution: 1:1,000 - 1:5,000</p> <p>Application Note: 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 Rockland's 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 (code # S000-03) 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.</p> <p>Western Blot Dilution: 1:3000 - 1:30,000</p> <p>ELISA Dilution: 1:80,000 - 1:500,000</p> <p>IF Microscopy Dilution: User Optimized</p>
Restrictions:	For Research Use only

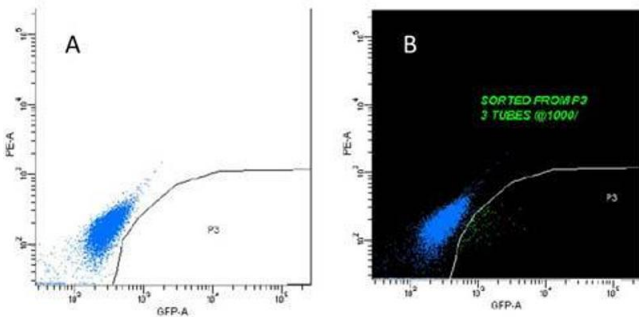
Handling

Format:	Liquid
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Handling

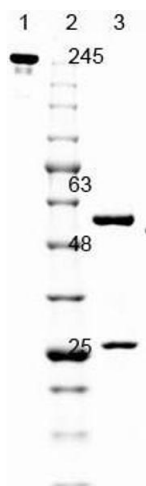
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store mouse anti-GFP at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



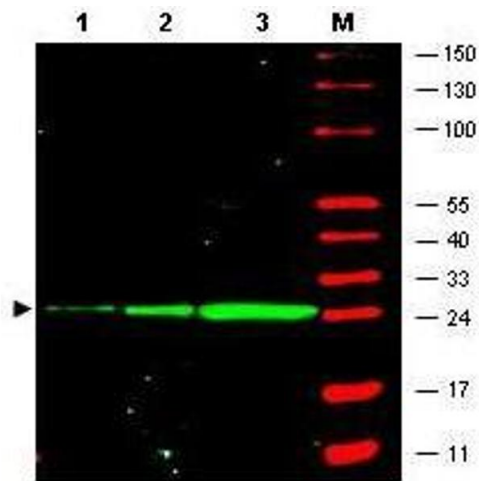
Flow Cytometry

Image 1. Mouse monoclonal Anti-GFP antibody is able to detect positive cell population in cytoflow analysis. A. cells were not stained with anti-GFP antibody/fluorescence complex. B. Cells were stained with anti-GFP antibody/fluorescence complex and sorted. All recovered individual cells sorted by FACS have been re-confirmed to be positive.



SDS-PAGE

Image 2. 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 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 ABIN5596892.