10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated

GFP Antibody Alkaline Phosphatase Conjugated
Catalog # ASR5129

Specification

Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - Product Information

Host	**Mouse**
Conjugate	**Alkaline Phosphatase (Calf Intestine)**
Reactivity	**GFP**
Clonality	**Monoclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**Monoclonal anti-GFP is designed to detect enhanced GFP and GFP containing recombinant proteins. This antibody was tested by western blot and ELISA. It 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.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.05 M Tris Chloride, 0.15M Sodium Chloride, 0.001M Magnesium Chloride, 0.0001M Zinc Chloride, 50% (v/v) Glycerol; pH 8.0**
Immunogen	**Anti-Green Fluorescent Protein (GFP) is produced by immunizing GFP containing fusion protein that corresponds to the full length amino acid sequence (246aa) derived from the jellyfish Aequorea victoria.**

Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - Additional Information

Purity
GFP Antibody Alkaline Phosphatase Conjugated was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse Serum, anti-Alkaline Phosphatase, purified and partially purified Green Fluorescent Protein (Aequorea victoria). Reactivity is observed against recombinant Green Fluorescent Protein (000-001-215, recombinant GFP from Aequorea victoria) by both Western blot and ELISA. No reaction is seen against RFP.

Storage Condition
Store vial at 4° C before opening. DO NOT FREEZE. This product is stable at 4° C as an undiluted liquid. Dilute only prior to immediate use. Freezing alkaline phosphatase conjugates will result in a substantial loss of enzymatic activity.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - Protein Information

Name GFP

Function
Energy-transfer acceptor. Its role is to transduce the blue chemiluminescence of the protein aequorin into green fluorescent light by energy transfer. Fluoresces in vivo upon receiving energy from the Ca(2+)-activated photoprotein aequorin.

Tissue Location
Photocytes.

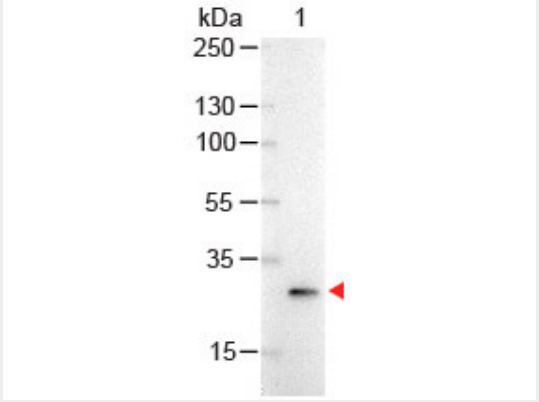
Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western Blot of Mouse anti-GFP Antibody Alkaline Phosphatase Conjugated. Lane 1: GFP. Load: 100 ng per lane. Primary antibody: none. Secondary antibody: GFP Antibody Alkaline Phosphatase Conjugated Mouse Secondary at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 28 kDa, 28 kDa.

Anti-GFP (MOUSE) Monoclonal Antibody Alkaline Phosphatase Conjugated - Background

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.