

Anti-GFP (RABBIT) Antibody Peroxidase Conjugated
GFP Antibody Peroxidase Conjugated
Catalog # ASR5810**Specification**

Anti-GFP (RABBIT) Antibody Peroxidase Conjugated - Product Information

Host	Rabbit
Conjugate	Peroxidase (Horseradish)
Reactivity	GFP
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-GFP Antibody is designed to detect GFP and its variants. This GFP Peroxidase conjugated antibody has been tested by ELISA and Western blot. This product can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen and recognizes wild type, recombinant and enhanced forms of GFP. Biotin conjugated polyclonal anti-GFP used in a sandwich ELISA is well suited to titrate GFP in solution using this antibody in combination with Rockland's monoclonal anti-GFP (600-301-215) using either form of the antibody as the capture or detection antibody. However, use the monoclonal form only for the detection of wild type or recombinant GFP as this form does not sufficiently detect 'enhanced' GFP. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin conjugated HRP (code # S000-03). Fluorochrome conjugated polyclonal anti-GFP can be used to detect GFP by immunofluorescence microscopy in prokaryotic (E.coli) and eukaryotic (CHO cells) expression systems and can detect GFP containing inserts. Significant amplification of signal is achieved using fluorochrome conjugated polyclonal anti-GFP relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Anti-Green Fluorescent Protein (GFP) is

Reconstitution Volume
Reconstitution Buffer

Stabilizer

Preservative

produced by immunizing GFP containing fusion protein that corresponds to the full length amino acid sequence (246aa) derived from the jellyfish *Aequorea victoria*.

100 µL

Restore with deionized water (or equivalent)

10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

Anti-GFP (RABBIT) Antibody Peroxidase Conjugated - Additional Information

Purity

GFP Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (*Aequorea victoria*) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, anti-Peroxidase and purified and partially purified Green Fluorescent Protein (*Aequorea victoria*) Serum. No reaction was observed against Human, Mouse and Rat Serum Proteins.

Storage Condition

Store GFP Antibody at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.

Precautions Note

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

Anti-GFP (RABBIT) Antibody Peroxidase 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.

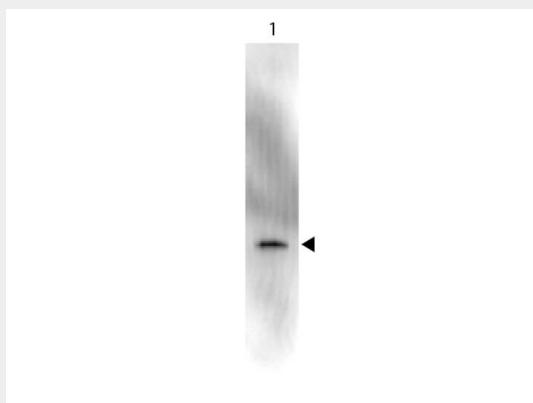
Anti-GFP (RABBIT) Antibody Peroxidase Conjugated - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GFP (RABBIT) Antibody Peroxidase Conjugated - Images



Western Blot of Anti-GFP Antibody Peroxidase Conjugate. Lane 1: 50ng of GFP. Lane 2: none. Primary antibody: none. Secondary antibody: Anti-GFP Antibody Peroxidase Conjugate secondary antibody was used at 1:1000 for 45 min at RT. Block: 1% BSA-TTBS (p/n MB-013, diluted to 1X) 30 min at 20°C. Predicted/Observed size: 28 kDa for GFP. Other band(s): none.

Anti-GFP (RABBIT) Antibody Peroxidase 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.