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Anti-GFP (GOAT) Antibody Peroxidase Conjugated

GFP Antibody Peroxidase Conjugate
Catalog # ASR5107

Specification

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

Host	**Goat**
Conjugate	**Peroxidase (Horseradish)**
Reactivity	**GFP**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
Application Note	**Polyclonal anti-GFP is designed to detect GFP and its variants. Anti-GFP Peroxidase conjugated antibody has been tested by ELISA to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen and recognizes wild type, recombinant and enhanced forms of GFP and by western blot. 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	**Recombinant Green Fluorescent Protein (GFP) fusion protein corresponding to the**

	full length amino acid sequence (246aa) derived from the jellyfish Aequorea victoria.
Reconstitution Volume	**1.0 mL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!**

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

Purity
Anti-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-Goat Serum, anti-Peroxidase and purified and partially purified Green Fluorescent Protein (Aequorea victoria). 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 (GOAT) 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 (GOAT) 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

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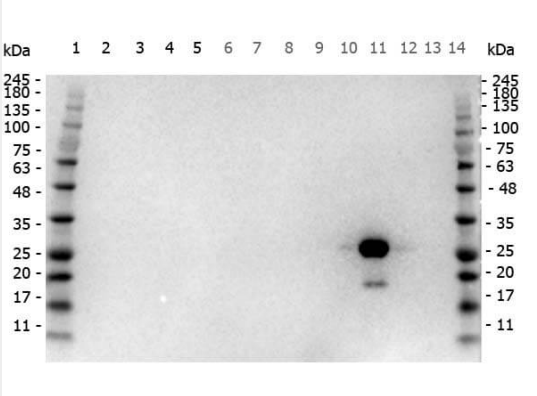
- Flow Cytomety
- Cell Culture

Anti-GFP (GOAT) Antibody Peroxidase Conjugated - Images



Western Blot of Goat anti-GFP antibody Peroxidase conjugated. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 2: HEK293 lysate (p/n W09-000-365). Lane 3: HeLa Lysate (p/n W09-000-363). Lane 4: CHO/K1 Lysate (p/n W07-000-357). Lane 5: C2C12 Lysate. Lane 6: NIH/3T3 Lysate (p/n W10-000-358). Lane 7: Mouse Embryonic Fibroblast Lysate (p/n W10-001-371). Lane 8: E-coli HCP Control (p/n 000-001-J08). Lane 9: 2 Epitope MBP Tag Marker Lysate (p/n MB-301-0100). Lane 10: Recombinant Red Fluorescent Protein (p/n 000-001-379). Lane 11: Green Fluorescent Protein (p/n 000-001-215). Lane 12: Glutathione-S-Transferase Protein. Lane 13: Maltose Binding Protein (p/n 000-001-385). Marker: Opal Pre-stained ladder Load: 10 µg of lysate or 50ng of purified protein per lane. Primary antibody: goat anti-GFP peroxidase conjugated antibody at 1:1,000 overnight at 4C. Secondary antibody: none Blocking Buffer: BlockOut (p/n MB-073) for 30 min at RT. Predicted/Observed size: 28 kDa for GFP.

Anti-GFP (GOAT) Antibody Peroxidase Conjugated - Background

HRP Anti-GFP is ideal for western blotting, ELISA 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.