

Anti-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins
RFP Antibody Peroxidase Conjugated Pre-Adsorbed
Catalog # ASR5814**Specification****Anti-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins - Product Information**

Host	Rabbit
Conjugate	Peroxidase (Horseradish)
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Rabbit Anti-RFP Peroxidase Conjugated Antibody has been tested in ELISA and Western blot. It can be used to detect RFP by ELISA (sandwich or capture) for the direct binding of antigen or to detect RFP or RFP containing proteins on Western blots. References suggest that the antibody is also suitable for IHC. 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	The immunogen is a Red Fluorescent Protein (RFP) fusion protein corresponding to the full length amino acid sequence (234aa) derived from the mushroom polyp coral <i>Discosoma</i> .
Reconstitution Volume	100 µL
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-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins - Additional Information**Purity**

Rabbit Anti-RFP Peroxidase Conjugated Antibody was prepared from monospecific rabbit antiserum by immunoaffinity chromatography using Red Fluorescent Protein (*Discosoma*) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Expect reactivity against RFP and its variants: mCherry, tdTomato, mBanana, mOrange, mPlum, mOrange and mStrawberry. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-peroxidase, anti-Rabbit Serum and purified and partially purified Red Fluorescent Protein (*Discosoma*). No reaction was observed against Human, Mouse or Rat serum proteins. ELISA was used to confirm specificity at less than 0.1% of target signal.

Storage Condition

Store vial 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-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins - Protein Information

Name RFP

Function

Thought to play a role in photoprotection of the coral's resident symbiont microalgae's photosystems from photoinhibition caused by high light levels found near the surface of coral reefs. In deeper water, the fluorescence may be to convert blue light into longer wavelengths more suitable for use in photosynthesis by the microalgal symbionts.

Anti-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins - 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-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins - Images**Anti-RFP (RABBIT) Antibody Peroxidase Conjugated Min X Hu Ms and Rt Serum Proteins - Background**

Fluorescent proteins such as Discosoma Red Fluorescent Protein (DsRed) from sea anemone *Discosoma* sp. mushroom or green fluorescent protein (GFP) from *Aequorea victoria* jellyfish are widely used in research practice. Fusion RFP and GFP commonly serve as marker for gene expression and protein localization. As DsRed and GFP share only 19% identity, therefore, in general, anti-GFP antibodies do not recognize DsRed protein and vice versa. Structurally, *Discosoma* red fluorescent protein is similar to *Aequorea* green fluorescent protein in terms of its overall fold (a β -can) and chromophore-formation chemistry. However, *Discosoma* red fluorescent protein undergoes an additional step in the chromophore maturation and obligates tetrameric structure. Rockland offers many controls, monoclonal, and polyclonal antibodies for RFP.