

Product datasheet for **AP09229FC-N**

RFP-Tag (Ads. to Hu, Ms, Rt Serum Proteins) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, FC, IF, WB

Recommended Dilution: Antibodies to RFP (*Discosoma* spp.) are intended for use in immunological assays including ELISA, Western blotting, Fluorometry and Fluorescence activated cell sorting (FACS). Polyclonal anti-RFP is designed to detect RFP and its variants. This antibody can be used to detect RFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated polyclonal anti-RFP used in a sandwich ELISA with unconjugated anti-RFP is well suited to titrate RFP in solution. The detection antibody conjugated to biotin is subsequently reacted with streptavidin conjugated HRP. Fluorochrome conjugated polyclonal anti-RFP can be used to detect RFP by immunofluorescence microscopy in cell expression systems and can detect RFP containing inserts. Significant amplification of signal is achieved using fluorochrome conjugated polyclonal anti-RFP relative to the fluorescence of RFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-RFP to detect RFP or RFP containing proteins on western blots.

Recommended Dilutions:

ELISA: > 1/20,000.

Western blot: > 1/10,000.

Immunofluorescence: 1/500-1/2,5000.

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

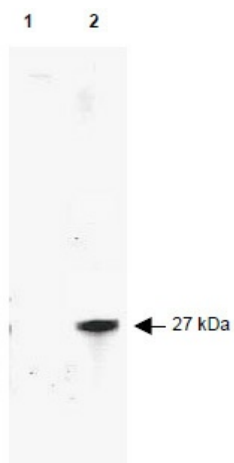
Immunogen: Red Fluorescent Protein (RFP) fusion protein corresponding to the full length amino acid sequence (234aa) derived from the mushroom polyp coral *Discosoma*

Specificity: Assay by Immunoelectrophoresis resulted in a single precipitin arc against 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. Expect reactivity against RFP and its variants: mCherry, tdTomato, mBanana, mOrange, mPlum, mOrange and mStrawberry.



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| Formulation: | 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 Label: FITC State: Lyophilized purified Ig fraction Stabilizer: 10 mg/ml BSA (Immunoglobulin and Protease free) Preservative: 0.01% (w/v) Sodium Azide Label: Fluorescein isothiocyanate (Molecular Weight 390 daltons) Absorption emission: 495 nm / 528 nm Molar ratio: 2.2 moles FITC per mole of IgG |
| Reconstitution Method: | Restore with 0.1 ml of deionized water (or equivalent). |
| Concentration: | lot specific |
| Purification: | Immunoaffinity Chromatography using Red Fluorescent Protein (Discosoma) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities |
| Conjugation: | FITC |
| Storage: | Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | Q9U6Y8 |
| Background: | Epitope tagging is a powerful and versatile strategy for detecting and purifying proteins expressed by cloned genes. To utilize this feature, protein expression vectors are typically engineered with a nucleotide sequence that encodes the peptide epitope tag. The gene of interest is cloned in-frame relative to the tag and, upon expression, the protein of interest is synthesized as a fusion protein with the peptide tag. Fusion protein detection and/or purification is mediated by highly specific antibodies to the engineered peptide, thus eliminating the need for antibodies to proteins from each newly cloned gene. Commonly used epitope tags include glutathione-S-transferase (GST), c-myc, 6-histidine (6X-His), FLAG, green fluorescent protein (GFP), red fluorescent protein (RFP, DsRed), maltose binding protein (MBP), influenza A virus haemagglutinin (HA), b-galactosidase, and GAL4. |
| Synonyms: | Red fluorescent protein Tag, DsRed Tag |

Product images:

Western blot of RFP recombinant protein detected with anti-RFP antibody. Lane 1 shows no reaction against a GFP recombinant protein present in 10 g of HeLa cell extract. Lane 2 shows a single band detected in 10 g of a HeLa lysate containing RFP recombinant