

Product datasheet for **TA396750S**

DsRed Mouse Monoclonal Antibody [Clone ID: 8E5.G7]

Product data:

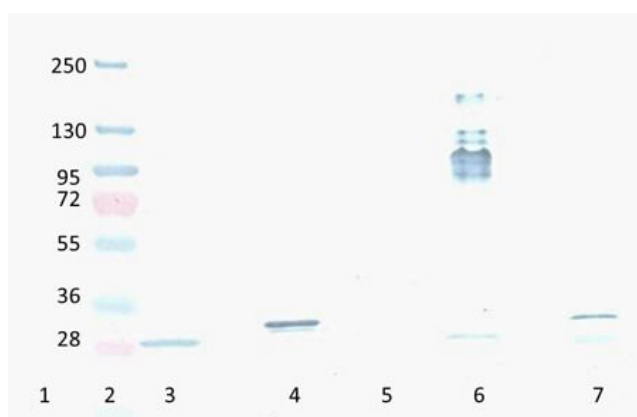
Product Type:	Primary Antibodies
Clone Name:	8E5.G7
Applications:	ELISA, FC, IF, IP, WB
Recommended Dilution:	WB: 1:1,000 - 1:10,000 IF: User Optimized FC: User Optimized ELISA: 1:75,000 - 1:150,000
Reactivity:	mCherry, RFP, rRFP
Host:	Mouse
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	Anti-RFP monoclonal antibody 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> .
Specificity:	Anti-RFP Monoclonal Antibody was purified from concentrated tissue culture supernate by Protein A chromatography. Expect reactivity against RFP and its variants: mCherry, tdTomato, mBanana, mOrange, mPlum, mOrange and mStrawberry.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store Anti-RFP at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	Q9U6Y8



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- Background:** Antibodies to RFP (*Discosoma* spp.) are intended for use in immunological assays including ELISA, western blotting, fluorometry and fluorescence activated cell sorting (FACS). RFP Proteins are useful markers for imaging protein localization, monitoring physiological processes, and detecting transgenic expression. Rockland's anti-RFP antibody can be used to detect native RFP and RFP variants.
- Synonyms:** mouse anti-RFP Antibody, DsRed, rDsRed, *Discosoma* sp. Red Fluorescent Protein, Red fluorescent protein drFP583
- Note:** Anti-RFP antibody has been tested by ELISA and Western blot and is designed to detect Red Fluorescent Protein and its variants. This antibody can be used to detect RFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated 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 (code # S000-03). Fluorochrome conjugated 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 anti-RFP relative to the fluorescence of RFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated anti-RFP to detect RFP or RFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.

Product images:



Western Blot of Mouse Anti-RFP antibody. Lane 1: YFP protein. Lane 2: Prestained Molecular Weight Marker. Lane 3: Reduced RFP control Protein. Lane 4: Reduced mCherry. Lane 5: GFP protein. Lane 6: Non-Reduced RFP control Protein. Lane 7: Non-Reduced mCherry. Load: 300ng per lane. Primary antibody: RFP antibody at 1:2000 in MB-070 for 3 hours at RT. Secondary antibody: HRP anti-Mouse secondary antibody at 1:10,000 in MB-070 for 60 min at RT. Substrate: TMBM-100 for 20 min. Predicted/Observed size: ~27 kDa.