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Product datasheet for TA397545S

DsRed Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**WB**: 1:2,000 - 1:10,000 **IHC**: 1:200 - 1:2,000 **IF**: 1:200 - 1:2,000 **ELISA**: 1:150,000 - 1:250,000
Reactivity:	mCherry, RFP, rRFP
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a mCherry mutant variant fusion protein of RFP corresponding to the full length amino acid sequence (234aa) derived from the mushroom polyp coral Discosoma.
Specificity:	mCherry was prepared from monospecific 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 mCherry, RFP and its variants: tdTomato, mBanana, mOrange, mPlum, mOrange and mStrawberry. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum and purified and partially purified mCherry. 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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.04 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial 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.

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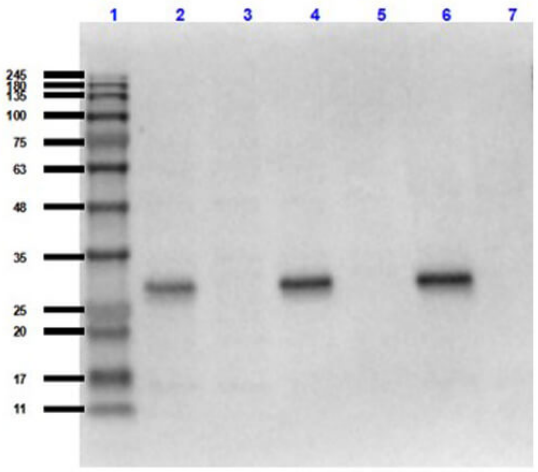
Background: mCherry antibody is ideal for western blotting. Fluorescent proteins such as Discosoma Red Fluorescent Protein (and its variants), and GFP are widely used in research practice. Both commonly serve as a markers for gene expression and protein localization. DsRed was isolated from sea anemone Discosoma sp. mushroom and GFP is originated from Aequorea victoria jellyfish. 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 steps in the chromophore maturation and obligates tetrameric structure. All mCherry antibodies have been pre-absorbed to eliminate any potential cross-reactivity to human, mouse and rat serum proteins. The antibodies are also confirmed for non-reactivity to GFP protein.

Synonyms: rabbit anti-mCherry antibody, RFP, mCherry monomeric red fluorescent protein, Red Fluorescent Protein (RFP), rDsRed, Discosoma sp. Red Fluorescent Protein

Note: Polyclonal anti-mCherry is designed to detect mCherry, RFP, and its variants. Anti-mCherry (Discosoma sp.) has been tested by ELISA and Western blot and is intended for use in immunological assays including ELISA, western blotting, immunofluorescence, and fluorescence activated cell sorting (FACS). Researchers should determine optimal titers for applications that are not stated. In addition, we performed conjugation of RFP antibodies to either fluorescent dyes, biotin or horseradish peroxidase to further facilitate RFP protein detection and quantification.

Product images:



Western Blot of Rabbit Anti-mCherry Antibody MX Hu Ms Rt. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: RFP (p/n 000-001-379)/HeLa WCL (p/n W09-000-364) [0.02µg/10µg]. Lane 3: HeLa WCL (p/n W09-000-364) [10µg]. Lane 4: RFP (p/n 000-001-379)/NIH/3T3 WCL (p/n W10-000-358) [0.02µg/10µg]. Lane 5: NIH/3T3 WCL (p/n W10-000-358) [10µg]. Lane 6: RFP (p/n 000-001-379)/PC-12 WCL (p/n W12-001-GL9) [0.02µg/10µg]. Lane 7: PC-12 WCL (p/n W12-001-GL9) [10µg]. Primary Antibody: Anti-mCherry at 1:1000 overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 for 30mins at RT. Block: BLockOut Buffer (p/n MB-073). Predicted MW: ~27-30kDa.