

Anti-mCherry (RABBIT) Antibody Min X Hu Ms and Rt Serum Proteins - 600-401-P16

Code: 600-401-P16

Size: 100 µg

Product Description: Anti-mCherry (RABBIT) Antibody Min X Hu Ms and Rt Serum Proteins - 600-401-P16

Concentration: 1.1 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	DsRed
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store mCherry Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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.
Synonyms	rabbit anti-mCherry antibody, RFP, mCherry monomeric red fluorescent protein, Red Fluorescent Protein (RFP), rDsRed, Discosoma sp. Red Fluorescent Protein, mRFP1, mBanana, mHoneydew, mPlum, mOrange, mStrawberry, mTangerine
Application Note	Polyclonal anti-mCherry is designed to detect mCherry, RFP, and its variants. Anti-mCherry (Discosoma sp.) are 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.
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 -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.
Purity And 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.
ELISA	1:150,000 - 1:250,000
Western Blot	1:2,000 - 1:10,000
Immunohistochemistry	1:200 - 1:2,000
IF Microscopy	1:200 - 1:2,000
Expiration	Expiration date is one (1) year from date of opening.
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.
Specific Reference	Valley, M. T., Henderson, L. G., Inverso, S. A., & Lledo, P. M. (2013). Adult neurogenesis produces neurons with unique GABAergic synapses in the olfactory bulb. <i>The Journal of Neuroscience</i> , 33(37), 14660-14665. Kao RM, Rurik JG, Farr GH 3rd, Dong XR, Majesky MW, Maves L. (2015) Pbx4 is Required for the Temporal Onset of Zebrafish Myocardial Differentiation. <i>J Dev Biol</i> . 2015;3(4):93-111.

Related Products

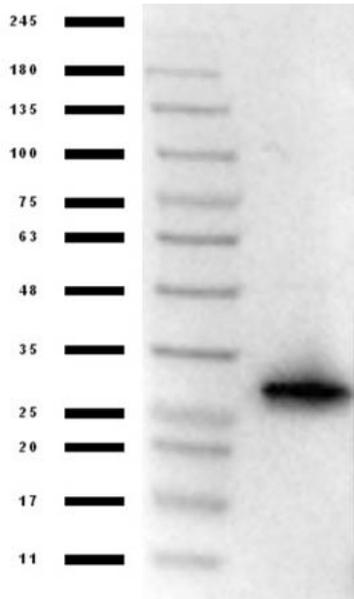
000-001-379

Recombinant Red Fluorescent Protein (RFP) Control - 000-001-379

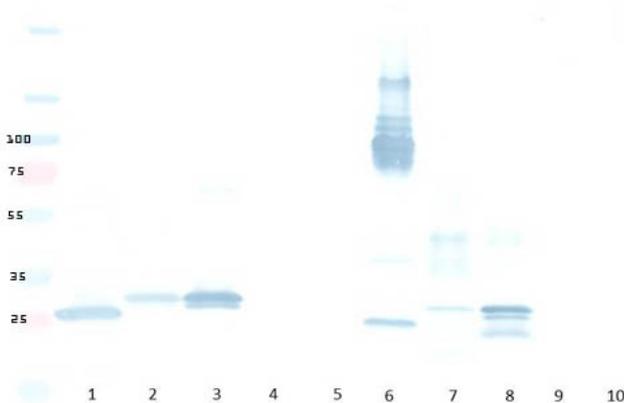
600-401-215	Anti-GFP (RABBIT) Antibody - 600-401-215
600-401-379	Anti-RFP (RABBIT) Antibody Min X Hu Ms and Rt Serum Proteins - 600-401-379
600-402-379	Anti-RFP (RABBIT) Antibody Fluorescein Conjugated Min X Hu Ms and Rt Serum Proteins - 600-402-379

Images

1 Western Blot of Rabbit Anti-mCherry Antibody. Lane 1: Opal Prestained Marker (p/n MB-210-0500). Lane 2: 50ng of RFP. Primary Antibody: rabbit anti-mCherry at 1µg/mL overnight at 4°C. Secondary Antibody: goat anti-Rabbit peroxidase (p/n 611-103-122) at 1:70000 for 30mins at RT. Block: BlockOut Universal Buffer (p/n MB-073). Expect band ~30 kDa.



2 Western Blot of Rabbit anti-mCherry antibody. Lane 1: Rockland mCherry fusion protein (reduced). Lane 2: Control dsRed reduced. Lane 3: Control mCherry reduced. Lane 4: Control BFP reduced. Lane 5: Control eGFP reduced. Lane 6: Rockland mCherry fusion protein (non-reduced). Lane 7: Control dsRed non-reduced. Lane 8: Control mCherry non-reduced. Lane 9: Control BFP non-reduced. Lane 10: Control eGFP non-reduced. Total load ~200 nanograms per lane. Load: 200ng per lane. Primary Antibody: Anti-mCherry at 1:5000 for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:10,000 and TMBM-100. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 25.9 kDa, for mCherry and RFP, no reaction to BFP or GFP.



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