Datasheet for ABIN7565893

anti-RFP antibody

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Overview

Quantity:	25 µL
Target:	RFP
Reactivity:	Discosoma
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RFP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Purpose:	Anti-mCherry Antibody Pre-Adsorbed
Immunogen:	Optional[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.
Cross-Reactivity (Details):	Minimal crossreactivity against Hu Ms & Rt Serum Proteins Expect reactivity against mCherry, RFP and its variants: tdTomato, mBanana, mOrange, mPlum, mOrange and mStrawberry.
Characteristics:	Synonyms: rabbit anti-mCherry antibody, RFP, mCherry monomeric red fluorescent protein, Red Fluorescent Protein (RFP), rDsRed, Discosoma sp. Red Fluorescent Protein
Purification:	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.

Product Details

	Preadsorption: Pre-Adsorbed
Sterility:	Sterile filtered

Target Details

Target:	RFP
Alternative Name:	DsRed (RFP Products)
Background:	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.

Application Details

Application Notes:	Application 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. Immunohistochemistry Dilution: 1:200 - 1:2,000 Western Blot Dilution: 1:2,000 - 1:10,000 ELISA Dilution: 1:150,000 - 1:250,000 IF Microscopy Dilution: 1:200 - 1:2,000
Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Concentration:	1.04 mg/mL
Buffer:	Optional[Buffer]: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	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.
Expiry Date:	12 months

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