Datasheet for ABIN129733

anti-RFP antibody (Biotin)

2 Images | 4 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	RFP
Reactivity:	Discosoma
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RFP antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Purpose:	Polyclonal anti-RFP is designed to detect RFP and its variants.
Immunogen:	The immunogen is a Red Fluorescent Protein (RFP) fusion protein corresponding to the full length amino acid sequence derived from the mushroom polyp coral Discosoma. Immunogentype:Recombinant
Isotype:	IgG

Target Details

Target:	RFP
Alternative Name:	RFP (RFP Products)
Background:	Antibodies to RFP (Discosoma spp.) are intended for use in immunological assays including ELISA, western blotting, fluorometry and fluorescence activated cell sorting (FACS). Synonyms: DsRed, rDsRed, Discosoma sp. Red Fluorescent Protein, Red fluorescent protein

Target Details

	drFP583

Application Details

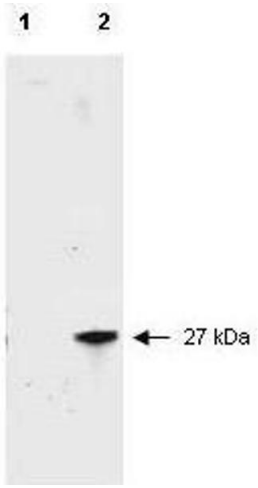
Application Notes:	Polyclonal anti-RFP is designed to detect RFP and its variants. This antibody can be used to detect RFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated polyclonal anti-RFP used in a sandwich ELISA with unconjugated anti-RFP is well suited to titrate 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. Optimal titers for applications should be determined by the researcher.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Restore with deionized water (or equivalent)
Concentration:	1.1 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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:	4 °C

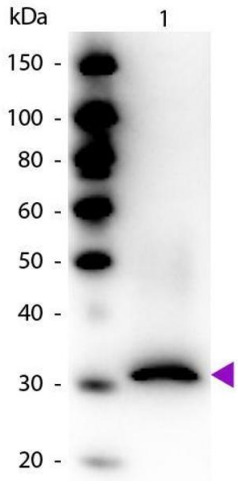
Publications

Product cited in:	Jordan, Buhrman, Sprague, Moore, Gao, Kappler, Slansky: "TCR hypervariable regions expressed by T cells that respond to effective tumor vaccines." in: **Cancer immunology, immunotherapy : CII**, (2012) (PubMed).



Western Blotting

Image 1. Western blot of RFP recombinant protein detected with polyclonal anti-RFP antibody. Lane 1 shows no reaction against a GFP recombinant protein present in 10 ug of HeLa cell extract. Lane 2 shows a single band detected in 10 ug of a HeLa lysate containing RFP recombinant protein. Separation was achieved using a 4-12% Bis-Tris gradient gel followed by transfer to nitrocellulose and blocking. The membrane was probed with the primary antibody diluted 1:2,500 for 1 h at room temperature followed by washes and reaction with a 1:5,000 dilution of800 conjugated Goat-a-Rabbit IgG [H&L] MX .800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



Western Blotting

Image 2. Western blot of Biotin conjugated Rabbit Anti-RFP Pre-adsorbed antibody. Lane 1: RFP. Lane 2: None. Load: 50 ng per lane. Primary antibody: RFP antibody at 1:1,000 for 60 min at RT. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 for 30 min at RT. PredictedObserved size: 30 kDa, 30 kDa for RFP. Other band(s): None.