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Datasheet for 600-906-379S

RFP Antibody Biotin Conjugated

Overview

Description:	Anti-RFP (CHICKEN) Biotin Conjugated Antibody - 600-906-379S
Item No.:	600-906-379S
Size:	25 µL
Applications:	IF, WB, IHC
Reactivity:	RFP, rRFP
Host Species:	Chicken

Product Details

Background:	Antibodies to RFP (Discosoma spp.) are intended for use in immunological assays including western blotting.
Synonyms:	chicken anti-RFP antibody biotin conjugation, biotin conjugated chicken anti-RFP antibody, DsRed, rDsRed, Discosoma sp. Red Fluorescent Protein, Red fluorescent protein drFP583
Host Species:	Chicken
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	DsRed
Reactivity:	RFP, rRFP
Immunogen Type:	Recombinant Protein
Immunogen:	The immunogen is a Red Fluorescent Protein (RFP) fusion protein corresponding to the full length amino acid sequence (234aa) derived from the mushroom polyp coral Discosoma.
Purity/Specificity:	RFP Antibody was prepared from egg yolks by a multi-step process which includes filtration, delipidation, salt fractionation and extensive dialysis against the buffer stated above. RFP Antibody was tested by western blot and immunoelectrophoresis against anti-biotin, anti-chicken serum, and RFP.

Relevant Links:	• 600-906-379 SDS • UniProtKB - Q9U6Y8

Application Details

Tested Applications:	IF, WB
Suggested Applications:	IHC (Based on references)
Application Note:	Anti-RFP is designed to detect recombinant RFP. This antibody has been tested to detect RFP by immunoblotting and immunofluorescence and is suitable for use in immunohistochemistry. 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. This product shows optimal performance by western blot.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	1:100
WB:	1:1,000 - 1:3,000

Formulation

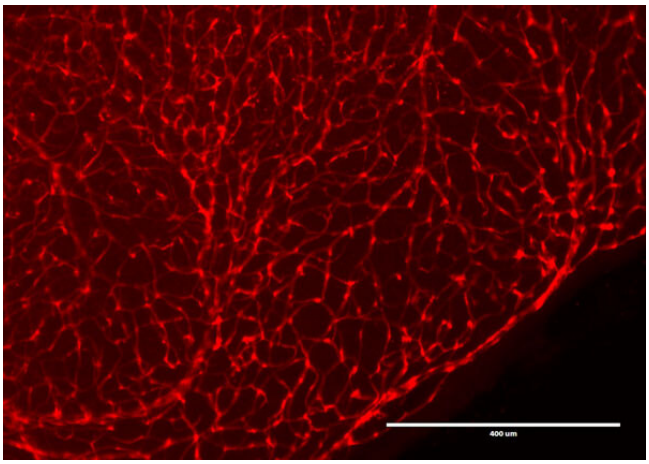
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Shipping & Handling

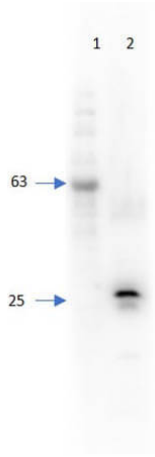
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Chicken Anti-RFP antibody. Tissue: DsRed transgenic mouse retina. Fixation: 4% PFA. Blocking: 3% BSA, 0.3% Triton Primary antibody: RFP-biotin antibody at 1:100 for 12 h at 4°C. Secondary antibody: Alexa488 secondary antibody at 1:10,000 for 4 hours at RT. Localization: RFP is nuclear and occasionally cytoplasmic. Staining: labeled in red.



Western Blot
Western Blot of Chicken Anti-RFP Antibody Biotin Conjugated. Lane 1: Super Signal Molecular Weight. Lane 2: 50ng of RFP. Primary Antibody: Chicken Anti-RFP biotin conjugated at 1:1000 overnight at 2-8°C. Secondary Antibody: HRP Streptavidin (p/n S000-03) 1:40,000 for 30mins at RT. Block: BlockOut Universal Blocking buffer (p/n MB-073). Expect: 27kDa.

References

- Wang J et al. IFN-γ-STAT1-mediated CD8+ T-cell-neural stem cell cross talk controls astrogliogenesis after spinal cord injury. *Inflamm Regen.* (2023)
- Xu L et al. Loss of spines in the prelimbic cortex is detrimental to working memory in mice with early-life adversity. *Mol Psychiatry.* (2023)
- Jo et al. Intersectional Strategies for Targeting Amacrine and Ganglion Cell Types in the Mouse Retina. *Frontiers in Neural Circuits* (2018)

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