

Datasheet for 600-906-379**RFP Antibody Biotin Conjugated****Overview**

Description:	Anti-RFP (CHICKEN) Biotin Conjugated Antibody - 600-906-379
Item No.:	600-906-379
Size:	100 µg
Applications:	IF, WB, IHC
Reactivity:	RFP, rRFP
Host Species:	Chicken

Product Details

Background:	Antibodies to RFP (<i>Discosoma</i> 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, <i>Discosoma</i> 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 <i>Discosoma</i> .
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](tel:600-906-379)
- [UniProtKB - Q9U6Y8](https://www.uniprot.org/entry/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:	1:2,000 - 1:5,000

Formulation

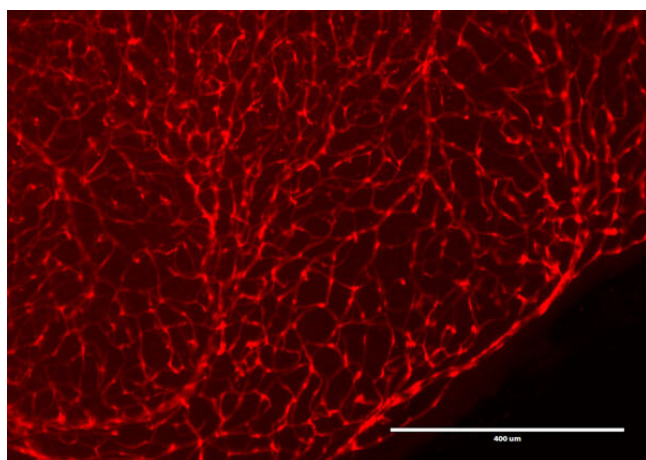
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. 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.

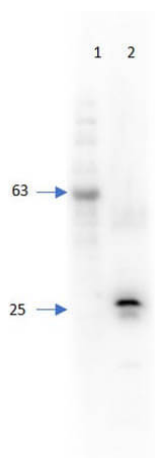
Expiration: Expiration date is one (1) year from date of receipt.

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 astroglialogenesis 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)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.