

Datasheet for ABIN964932

anti-RFP antibody

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Overview

Quantity:	100 µg
Target:	RFP
Reactivity:	Discosoma
Host:	Chicken
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	RFP Antibody
Immunogen:	<p>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.</p> <p>Immunogen Type: Recombinant Protein</p>
Isotype:	IgG
Cross-Reactivity (Details):	RFP Antibody was tested by Western blot.
Characteristics:	<p>Synonyms: chicken anti-RFP antibody, DsRed, rDsRed, Discosoma sp. Red Fluorescent Protein, Red fluorescent protein drFP583</p>
Purification:	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.
Sterility:	Sterile filtered

Target Details

Target:	RFP
Alternative Name:	DsRed (RFP Products)
Background:	Background: Antibodies to RFP (Discosoma spp.) are intended for use in immunological assays such as Western blotting.
UniProt:	Q9U6Y8

Application Details

Application Notes:	<p>Application Note: Anti-RFP is designed to detect recombinant RFP. Anti-RFP antibody has been tested by ELISA and Western blot to detect RFP. Optimal titers for applications should be determined by the researcher. This product shows optimal performance by Western blot.</p> <p>Western Blot Dilution: 1:1,000 - 1:3,000</p> <p>ELISA Dilution: 1:10,000</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: None</p> <p>Preservative: 0.01 % (w/v) Sodium Azide</p>
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, -20 °C
Storage Comment:	Store vial 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.
Expiry Date:	12 months

Publications

Product cited in: Faure, Wang, Kastriti, Fontanet, Cheung, Petitpré, Wu, Sun, Runge, Croci, Landy, Lai, Consalez, de Chevigny, Lallemand, Adameyko, Hadjab: "Single cell RNA sequencing identifies early diversity of sensory neurons forming via bi-potential intermediates." in: **Nature communications**, Vol. 11, Issue 1, pp. 4175, (2020) ([PubMed](#)).

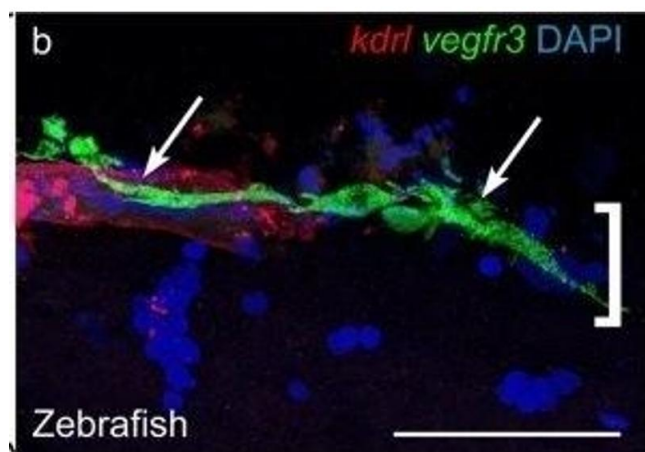
Murata, Colonnese: "GABAergic interneurons excite neonatal hippocampus in vivo." in: **Science advances**, Vol. 6, Issue 24, pp. eaba1430, (2020) ([PubMed](#)).

Torre-Muruzabal, Devoght, Van den Haute, Brône, Van der Perren, Baekelandt: "Chronic nigral neuromodulation aggravates behavioral deficits and synaptic changes in an α -synuclein based rat model for Parkinson's disease." in: **Acta neuropathologica communications**, Vol. 7, Issue 1, pp. 160, (2020) ([PubMed](#)).

Di Matteo, Pipicelli, Kyrousi, Tovecci, Penna, Crispino, Chambery, Russo, Ayo-Martin, Giordano, Hoffmann, Ciusani, Canafoglia, Götz, Di Giaimo, Cappello: "Cystatin B is essential for proliferation and interneuron migration in individuals with EPM1 epilepsy." in: **EMBO molecular medicine**, Vol. 12, Issue 6, pp. e11419, (2020) ([PubMed](#)).

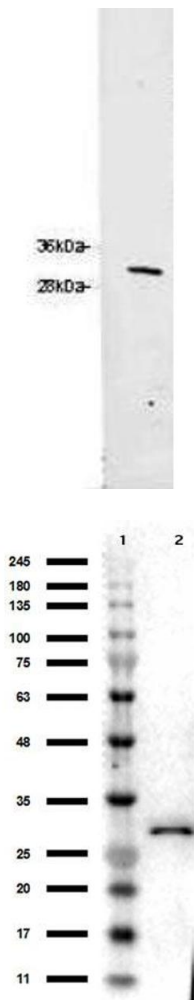
Stevens, Vonck, Larsen, Van Lysebettens, Germonpré, Baekelandt, Van den Haute, Carrette, Wadman, Boon, Raedt: "A Feasibility Study to Investigate Chemogenetic Modulation of the Locus Coeruleus by Means of Single Unit Activity." in: **Frontiers in neuroscience**, Vol. 14, pp. 162, (2020) ([PubMed](#)).

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Immunofluorescence (Paraffin-embedded Sections)

Image 1. Cells with BLEC molecular markers are present within the mouse leptomeninges. a Coronal brain section of adult zebrafish brain indicating the imaging area in the dorsal optic tectum (TeO). b A 14 month old Tg(kdr-l:mCherry), Tg(flt4:mCitrine) double transgenic zebrafish has cells in the meninges (white bracket) that express flt4/vegfr3 (α -GFP, green) near kdr-l positive (α -RFP, red) blood vessels. DAPI (blue) labels the nuclei. Scale=50 μ m. c Coronal mouse brain section showing the imaging areas of the meninges. d As revealed by IHC, 17-week-old mouse brains express VEGFR3 (green) in the meninges (white bracket). Tie2-GFP,NG2-DsRed double reporter mice were used to distinguish arteries and veins. NG2 (red) labels pericytes and smooth muscle cells, Tie2 (magenta) labels vascular endothelial cells, and Hoechst (blue) stains nuclei. The image is rotated with the parenchyma at the bottom for ease of comparison with panel b. Scale=50 μ m. e-e''' As revealed by IHC, cells of the meninges co-express MRC1 (e, yellow), LYVE1 (e', white), and VEGFR3 (e'', green). Red arrows highlight cells expressing these three markers. The images are rotated with the parenchyma at the bottom. scale=30 μ m. f, g Quantification of the relative numbers of single and double-labelled cells in 2-month old mouse meninges. VEGFR3 and LYVE1 cell counts were from n=2 brains, 3 coronal sections (10 area images)/brain. MRC1 and LYVE1 cell counts were from n=3 brains, 3 coronal sections (4 area images)/brain. The mean values for each set are depicted - figure provided by CiteAb. Source: PMID31696318



Western Blotting

Image 2. Western blot of Anti-RFP Antibody. 0.1 µg of RFP was loaded on a 4-20% gel and transferred to nitrocellulose membrane. Anti-RFP Antibody was added at 1.0 µg/mL at RT for 2 hours. anti-Chicken was added at 1:20,000 at RT for 45 minutes.

Western Blotting

Image 3. Western Blot Results of Chicken Anti-RFP Antibody. Lane 1: Opal PreStained Molecular Weight Marker . Lane 2: RFP, load 50ng. Primary Antibody: Anti-RFP 1µg/mL overnight at 4°C. Secondary Antibody: Goat Anti-Chicken HRP at 1:40,000 for 30min at RT. Blocking: BlockOut for 30min at RT. Expect: 27kDa.