

Product Datasheet

RFP Antibody - BSA Free NBP1-97371

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NBP1-97371

RFP Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgY
Purity	Multi-step
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Product Description	
Description	<p>Chicken products cannot be exported to Canada.</p> <p>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</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C 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 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Chicken
Species	Non-species specific
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30159312).
Specificity/Sensitivity	RFP Antibody was tested by western blot.
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. (Uniprot: Q9U6Y8)
Notes	Chicken products cannot be exported to Canada.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot 1:1000-1:3000, ELISA 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry Whole-Mount



Application Notes

This product is designed to detect recombinant RFP. This product antibody has been tested by ELISA, SDS-PAGE, and western blot to detect RFP. 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.

Use in Immunohistochemistry-Whole mount reported in scientific literature (PMID: 30159312).

Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 30158698). Use in IHC-P reported in scientific literature (PMID:34389674).

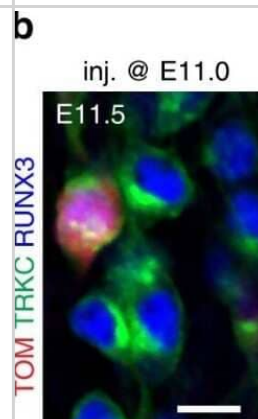


Images

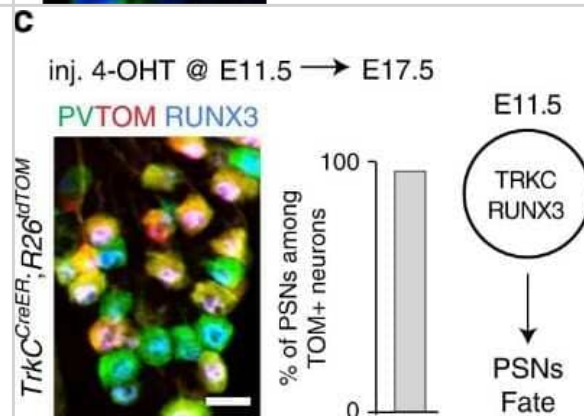
Western Blot: RFP Antibody [NBP1-97371] - Antibody was added at 1.0ug/mL at RT for 2 hours. IRDye800(R) anti-Chicken was added at 1:20,000 at RT for 45 minutes.

36kDa
28kDa

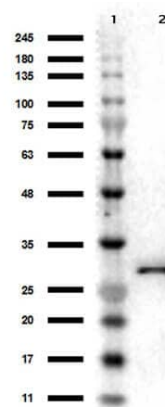
Immunocytochemistry/Immunofluorescence: RFP Antibody [NBP1-97371]



Immunocytochemistry/Immunofluorescence: RFP Antibody [NBP1-97371]



Western Blot Results of RFP Antibody. Lane 1: Opal PreStained Molecular Weight Marker



Publications

Xie Q, Dasari R, Namba MD et Al. Astrocytic regulation of cocaine locomotor sensitization in EcoHIV infected mice *Neuropharmacology* 2024-12-02 [PMID: 39631679]

Daniel Holl, Wing Fung Hau, Anais Julien, Shervin Banitalebi, Jannis Kalkitsas, Soniya Savant, Enric Llorens-Bobadilla, Yann Herault, Guillaume Pavlovic, Mahmood Amiry-Moghaddam, David Oliveira Dias, Christian Göritz Distinct origin and region-dependent contribution of stromal fibroblasts to fibrosis following traumatic injury in mice. *Nature neuroscience* 2024-07-11 [PMID: 38849523]

Salimando GJ, Tremblay S, Kimmey BA et al. Human OPRM1 and murine Oprm1 promoter driven viral constructs for genetic access to μ -opioidergic cell types *Nat Commun* 2023-09-13 [PMID: 37704594] (In vivo assay)

Tai YH, Engels D, Locatelli G et al. Targeting the TCA cycle can ameliorate widespread axonal energy deficiency in neuroinflammatory lesions *Nature Metabolism* 2023-07-10 [PMID: 37430025] (In vivo assay)

Skinninger M, Gautier M, Teo A et al. The Tabulae Paralytica: Multimodal single-cell and spatial atlases of spinal cord injury *bioRxiv* 2023-06-24 (Immunohistochemistry-Frozen, Mouse)

Tai Y, Engels D, Locatelli G et al. Targeting the TCA cycle can ameliorate widespread axonal energy deficiency in neuroinflammatory lesions *bioRxiv* 2023-04-04 (IHC, Mouse)

Details:

Dilutions: 1:1000

Qu R, Gupta K, Dong D et al. Decomposing a deterministic path to mesenchymal niche formation by two intersecting morphogen gradients *Developmental cell* 2022-04-25 [PMID: 35421372]

Giacometti LL, Chandran K, Figueroa LA, Barker JM Astrocyte modulation of extinction impairments in ethanol-dependent female mice *Neuropharmacology* 2020-11-15 [PMID: 32801026] (ICC/IF)

Kandel C, Schmidt P, Perniss A et al. ENaC in Cholinergic Brush Cells *Front Cell Dev Biol* 2018-08-15 [PMID: 30159312] (IHC-WhMt)

Dorst MC, Diaz-Moreno M, Dias DO Et al. Astrocyte-derived neurons provide excitatory input to the adult striatal circuitry *Proceedings of the National Academy of Sciences of the United States of America* 2021-08-17 [PMID: 34389674] (IHC-P)

Helseth AR, Hernandez-Martinez R, Hall VL et al. Cholinergic neurons constitutively engage the ISR for dopamine modulation and skill learning in mice *Science (New York, N.Y.)* 2021-04-23 [PMID: 33888613]

Anderson MA, O'Shea TM, Burda JE et al. Required growth facilitators propel axon regeneration across complete spinal cord injury *Nature* 2018-08-31 [PMID: 30158698] (ICC/IF)





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Products Related to NBP1-97371

BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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