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Datasheet for 600-401-EA1

RIM3 Antibody

Overview

Description:	Anti-RIM3 (RABBIT) Antibody - 600-401-EA1
Item No.:	600-401-EA1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Rab3-interacting molecules (RIMs) are synaptic proteins are synaptic proteins necessary for neural transmission and plasticity. While both Rim1 and Rim 2 are thought to be effector proteins for Rab3, binding to Rab3 on synaptic vesicles in a GTP-dependent manner, less is known of Rim3. Expression of Rim3 in PC12 cells induced a significant increase in calcium-triggered exocytosis, with no appreciable change in the baseline release, suggesting that it plays a role in the regulation of exocytosis. Rim3 protein localizes primarily to neuronal dendrites and the postsynaptic densities, as opposed to Rim1 which is found in presynapse locations, indicating that Rim3 may contribute to synapse transmission and plasticity.
Synonyms:	Rim3 Antibody, NIM3, RIM3, KIAA0237, Regulating synaptic membrane exocytosis protein 3, RIM3 gamma, Nim3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RIMS3
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Rim3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human Rim3.
Purity/Specificity:	Anti-Rim3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is predicted to have no cross-reactivity to other Rim proteins.
Relevant Links:	• UniProtKB - Q9UJD0 • GeneID - 9783 • NCBI - NP_055562

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Rim3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 33 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	5 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

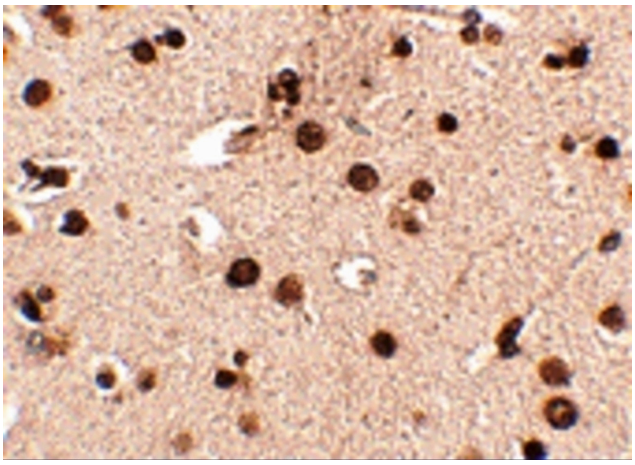
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

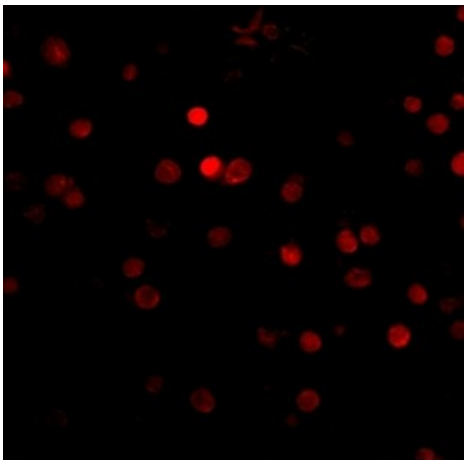
Shipping Condition:	Dry Ice

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

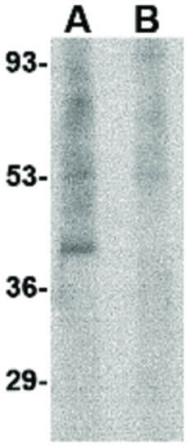
Images



Immunohistochemistry
Immunohistochemistry of Rim3 in human brain tissue with Rim3 antibody at 2.5 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of Rim3 in human brain tissue with rim3 antibody at 5 µg/mL.



Western Blot

Western Blot of Rim3 antibody. Lane A: Human brain tissue lysate in the absence of blocking peptide at 1 µg/mL. Lane B: Human brain tissue lysate in the presence of blocking peptide at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 32.7 kDa, ~39 kDa for Rim3.

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.