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Datasheet for 600-401-DZ9

RIM2 Antibody

Overview

Description:	Anti-RIM2 (RABBIT) Antibody - 600-401-DZ9
Item No.:	600-401-DZ9
Size:	100 µg
Applications:	ELISA, IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Rab3-interacting molecules (RIMs) are synaptic proteins necessary for neuronal transmission and plasticity. Rim1 and Rim2 proteins are expressed in overlapping but distinct patterns throughout the brain. While the ablation of either gene was not lethal in mice, the deletion of both resulted in postnatal mortality. This lethality is due to a defect in neurotransmitter release; synapses without RIM proteins can still release neurotransmitters but are unable to do so in response to normal Ca2+ triggers. Like Rim1, Rim2 is thought to be an effector protein for Rab3, binding to Rab3 on synaptic vesicles in a GTP-dependent manner.
Synonyms:	RIM2 Antibody, OBOE, RIM2, RAB3IP3, KIAA0751, Regulating synaptic membrane exocytosis protein 2, Rab-3-interacting molecule 2, RIM 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RIMS2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-RIM2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the internal region of human RIM2.

Purity/Specificity:	Anti-RIM2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. RIM2 antibody is human specific. Multiple isoforms of RIM2 are known to exist.
Relevant Links:	• UniProtKB - Q9UQ26 • GeneID - 9699 • NCBI - NP_001093587

Application Details

Tested Applications:	ELISA, IHC
Application Note:	Anti-RIM2 Antibody has been tested for use in ELISA, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 160 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:	User Optimized
IHC:	5 µg/mL

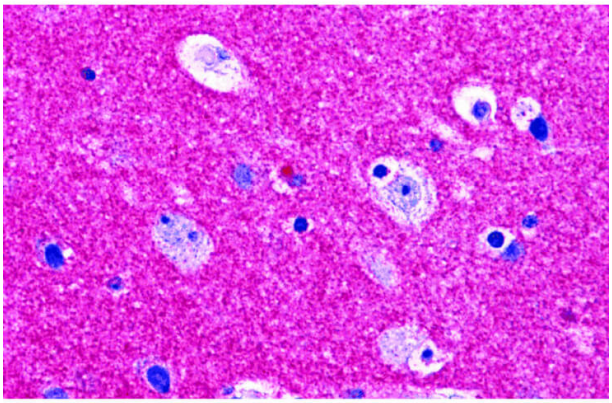
Formulation

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 RIM2 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: RIM2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: RIM2 is nuclear and occasionally cytoplasmic. Staining: RIM2 as a precipitated red signal with hematoxylin purple nuclear counterstain.

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