



Rabbit Anti-RIMS3 antibody

SL11359R

Product Name:	RIMS3
Chinese Name:	神经元突触膜胞外分泌调节蛋白3抗体
Alias:	NIM 3; NIM3; Rab 3 interacting molecule 3; Regulating synaptic membrane exocytosis 3; Regulating synaptic membrane exocytosis protein 3; RIMS 3; RIMS-3; RIM 3; RIM3; RIM3 gamma; RIMS3; RIMS3 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Zebrafish,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RIMS3:21-120/308
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Rab 3, a neural/neuroendocrine-specific member of the Rab family, is involved in Ca ²⁺ -regulated exocytosis and functions in an inhibitory capacity, controlling the recruitment and pooling of secretory vesicles at the plasma membrane. The Rim (Rab 3 interacting molecule) family of proteins (Rim1, Rim2, Rim3 and Rim4) are multidomain adaptors that regulate Rab 3 activity and sub-sequent neurotransmitter release. Rim3, also known

as RIMS3 (regulating synaptic membrane exocytosis 3) or NIM3, is a 308 amino acid member of the Rim family. Localized to the synapse and to cell junctions, Rim3 contains one C2 domain and is thought to play an important role in the regulation of synaptic membrane exocytosis. Rim3, a protein that may be phosphorylated upon DNA damage, is expressed throughout the body with highest levels present in brain tissue.

Function:

RIMS3 belongs to a family of synaptic proteins that are essential for normal neurotransmitter release. It localizes primarily to neuronal dendrites and the postsynaptic densities, indicating that it may contribute to synapse transmission and plasticity.

Subunit:

Binds PPFIA3 (By similarity). Does not bind RAB3.

Subcellular Location:

Cell junction, synapse.

Similarity:

Contains 1 C2 domain.

SWISS:

Q9UJD0

Gene ID:

9783

Database links:

[Entrez Gene: 9783](#)Human

[Entrez Gene: 242662](#)Mouse

[Entrez Gene: 65025](#)Rat

[Omim: 611600](#)Human

[SwissProt: Q9UJD0](#)Human

[SwissProt: Q80U57](#)Mouse

[SwissProt: Q9JIR3](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.