

Rim3 Antibody
Catalog # ASC10642**Specification**

Rim3 Antibody - Product Information

Application	WB, IHC-P, IF, E
Primary Accession	O9UJD0
Other Accession	NP_055562 , 48476344
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	Rim3 antibody can be used for detection of Rim3 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 5 µg/mL.

Rim3 Antibody - Additional Information

Gene ID 9783

Target/Specificity

RIMS3; This antibody is predicted to have no cross-reactivity to other Rim proteins.

Reconstitution & Storage

Rim3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

Rim3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Rim3 Antibody - Protein Information

Name RIMS3

Synonyms KIAA0237

Function

Regulates synaptic membrane exocytosis.

Cellular Location

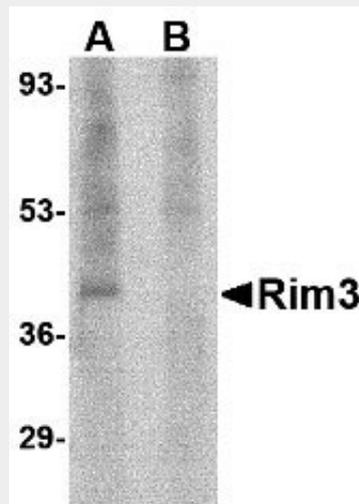
Synapse.

Rim3 Antibody - Protocols

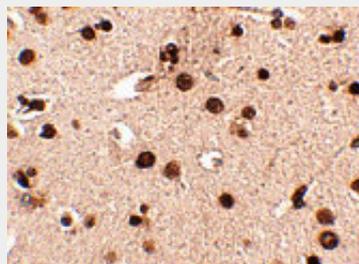
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

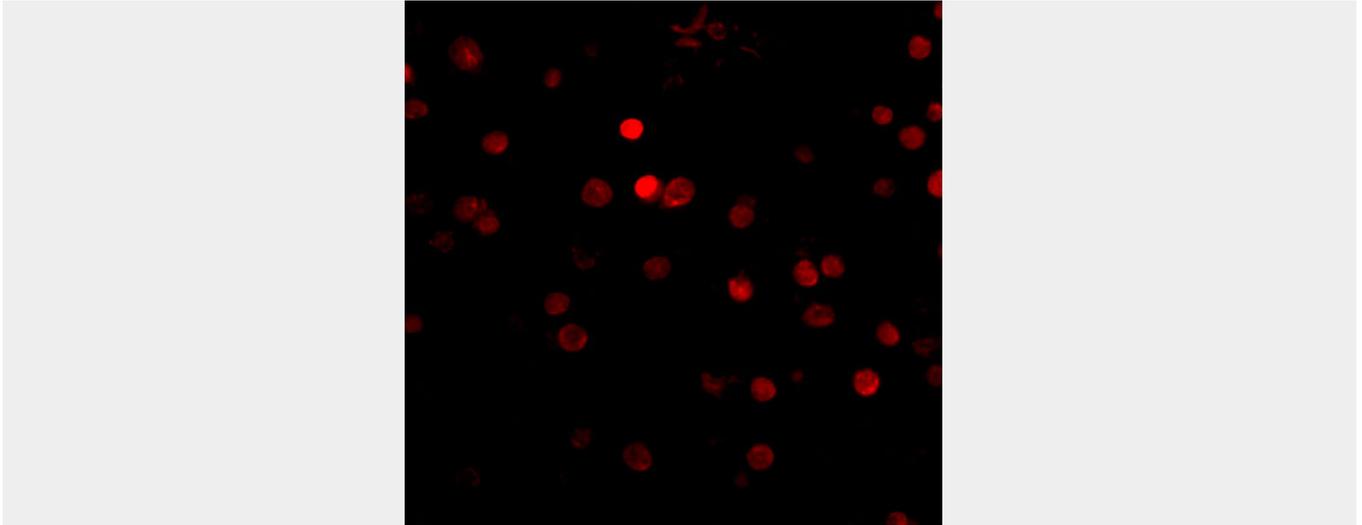
Rim3 Antibody - Images



Western blot analysis of Rim3 in human brain tissue lysate with Rim3 antibody at 1 $\mu\text{g}/\text{mL}$ in the (A) absence and (B) presence of blocking peptide.



Immunohistochemistry of Rim3 in human brain tissue with Rim3 antibody at 2.5 $\mu\text{g}/\text{mL}$.



Immunofluorescence of rim3 in human brain tissue with rim3 antibody at 5 μ g/mL.

Rim3 Antibody - Background

Rim3 Antibody: Rab3-interacting molecules (RIMs) 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.

Rim3 Antibody - References

Wang Y, Sugita S, and Sudhof TC. The RIM/NIM family of neuronal C2 domain proteins: interactions with Rab3 and a new class of Src homology 3 domain proteins. *J. Biol. Chem.* 2000; 275:20033-44.
Liang F, Zhang B, Tang J, et al. RIM3gamma is a postsynaptic protein in the rat central nervous system. *J. Comp. Neurol.* 2007; 503:501-10.