

RPH3A Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14129b**Specification**

RPH3A Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O9Y2J0](#)**RPH3A Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 22895**Other Names**

Rabphilin-3A, Exophilin-1, RPH3A, KIAA0985

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14129b was selected from the C-term region of RPH3A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RPH3A Antibody (C-term) Blocking peptide - Protein Information**Name** RPH3A**Synonyms** KIAA0985**Function**

Plays an essential role in docking and fusion steps of regulated exocytosis (By similarity). At the presynaptic level, RPH3A is recruited by RAB3A to the synaptic vesicle membrane in a GTP-dependent manner where it modulates synaptic vesicle trafficking and calcium-triggered neurotransmitter release (By similarity). In the post-synaptic compartment, forms a ternary complex with GRIN2A and DLG4 and regulates NMDA receptor stability. Also plays a role in the exocytosis of arginine vasopressin hormone (By similarity).

Cellular Location

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P47709}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:P47709}. Postsynaptic cell membrane

{ECO:0000250|UniProtKB:P47709}. Membrane {ECO:0000250|UniProtKB:P47709}; Peripheral membrane protein {ECO:0000250|UniProtKB:P47709}

RPH3A Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RPH3A Antibody (C-term) Blocking peptide - Images

RPH3A Antibody (C-term) Blocking peptide - Background

Exocytosis of neurotransmitters and hormones is fundamental to synaptic neurotransmission and cell-cell communication. RAB3A (MIM 179390) is a small G protein that is thought to act at late stages of exocytosis, and RPH3A is a RAB3A effector (Lin et al., 2007 [PubMed 17149709]).

RPH3A Antibody (C-term) Blocking peptide - References

Katkoori, V.R., et al. Front. Biosci. 13, 1050-1061 (2008) :Smith, R., et al. J. Neurochem. 103(1):115-123(2007) Lin, C.C., et al. J. Cell. Physiol. 211(2):316-326(2007) Dalfo, E., et al. Neurobiol. Dis. 16(1):92-97(2004) Rastaldi, M.P., et al. Am. J. Pathol. 163(3):889-899(2003)