Bioworld Technology CO., Ltd.

Rabphilin-3A (P231) Peptide

Cat No.: BS1590P

Background

The carboxy-terminal of rabphilin-3A consists of two C2 domains, A and B,and the amino-terminal (residues 45-170) contains a cysteine-rich rich region with two zinc finger motifs. Rabphilin-3A belongs to a family of other carboxyterminal type (C-type) tandem C2 proteins, which includes synaptotagmins and Doc2. Rabphilin is expressed in neuroendocrine cells and co-localizes with Rab3A on synaptic vesicles and chromaffin granules. Rabphilin-3A binds Rab3a/GTP/Mg+ within amino-terminal residues 45 and 170. Rabphilin-3A binds calcium ions and phosphatidylinositol 4,5-bisphophate containing lipid vesicles within its C2 domains. Rabphilin-3A is a positive regulator of calcium dependent exocytosis, while Rab3a is a negative regulator of exocytosis. Although rabphilin-3A associates with Rab3a, they seem to influence exocytosis independently of each other. Rabphilin-3A effects are likely mediated through interactions with an unknown factor that recognizes the Rab3 binding domain.

Swiss-Prot

P47708

Applications

Blocking

Specificity

This peptide can be used with studies using BS1590 Rabphilin-3A (P231) pAb.

Purification & Purity

Synthetic peptide Rabphilin-3A (P231). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

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