

Product datasheet for AP06576PU-M

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Rabphilin 3A (RPH3A) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, IHC, WB

Recommended Dilution: Western blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections 1/50-/1/200.

Immunofluorescence: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Immunogen: Synthetic peptide, corresponding to amino acids 200-250 of Human Rabphilin-3A.

Specificity: This antibody detects endogenous levels of Rabphilin 3A protein.

(region surrounding Pro231)

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% (by SDS-PAGE)

Preservative: 0.05% Sodium Azide

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: ~ 75 kDa

Gene Name: rabphilin 3A

Database Link: Entrez Gene 22895 Human

Q9Y2J0





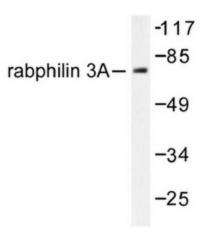
Background:

The carboxy-terminal of rabphilin-3A consists of two C2 domains, A and B, and the aminoterminal (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.

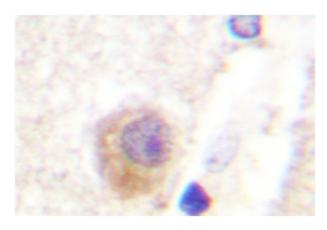
Synonyms:

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

Product images:



Western blot analysis of Rabphilin 3A antibody in extracts from HeLa cells treated with TNF-a 20ng/ml 2'.



Immunohistochemistry analysis of Rabphilin 3A antibody in paraffin-embedded human brain tissue.