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**Product Name: Rabphilin-3A Rabbit Polyclonal Antibody****Catalog #: APRab16818**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000
<b>Molecular Weight</b>	75kDa

**Antigen Information**

<b>Gene Name</b>	RPH3A
<b>Alternative Names</b>	RPH3A; KIAA0985; Rabphilin-3A; Exophilin-1
<b>Gene ID</b>	22895.0
<b>SwissProt ID</b>	Q9Y2J0
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human Rabphilin 3A. AA range:203-252

**Background**

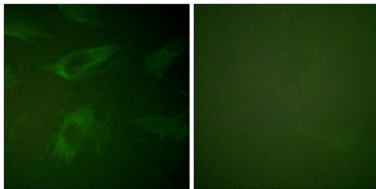
Exocytosis of neurotransmitters and hormones is fundamental to synaptic neurotransmission and cell-cell communication.

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]).[supplied by OMIM, Jul 2008],function:Protein transport. Probably involved with Ras-related protein Rab-3A in synaptic vesicle traffic and/or synaptic vesicle fusion. Could play a role in neurotransmitter release by regulating membrane flow in the nerve terminal.,similarity:Contains 1 FYVE-type zinc finger.,similarity:Contains 1 RabBD (Rab-binding) domain.,similarity:Contains 2 C2 domains.,

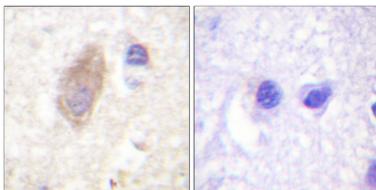
## Research Area

Neurotransmission; Secretory Vesicles; Rabs; Neuroscience; Cell Type Marker; Neuron marker; Synapse marker

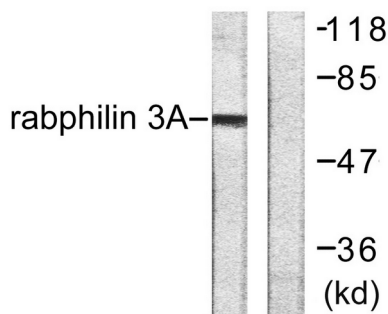
## Image Data



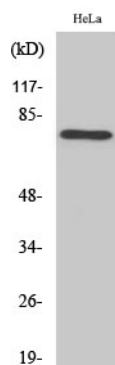
Immunofluorescence analysis of HeLa cells, using Rabphilin 3A Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Rabphilin 3A Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, treated with TNF- $\alpha$  20ng/ml 2 h, using Rabphilin 3A Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Rabphilin-3A Polyclonal Antibody