

## Rabphilin Antibody

*Rabphilin 3A (ser234) Phospho-Specific Antibody*  
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**CATALOG NO.: 50-236**

**DESCRIPTION:**

Rabphilin-3A is a peripheral membrane protein that binds Ca<sup>2+</sup> and phospholipids and is attached to synaptic vesicle membranes (Geppert et al., 1994; Li et al., 1994). The expression of rabphilin 3A is reduced in an animal model of Huntington's disease (Smith et al., 2005). Rabphilin can be phosphorylated at Ser234 by both CAM kinase II and PKA and this phosphorylation has been suggested to regulate neuronal activity during development in a synapse-specific manner (Fykse et al., 1995; Foletti and Scheller, 2001).

**HOST:**

Rabbit

**CLONALITY:**

Polyclonal

**IMMUNOGEN:**

Phosphopeptide corresponding to amino acid residues surrounding the phospho- Ser234 of rabphilin 3A.

**SPECIES REACTIVITY:**

M,R

**PURIFICATION:**

Affinity purified

**TESTED APPLICATION:**

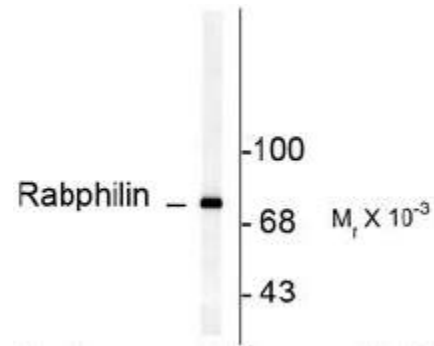
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**APPLICATION DETAILS:**

The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with mouse based on the fact that this species has 100% homology with the amino acid sequence used as antigen.

**BUFFER:**

Rabphilin antibody is supplied as affinity purified polyclonal antibody, 100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.



Western blot of rat brain lysate showing specific immunolabeling of the ~82k rabphilin 3A phosphorylated at Ser234.

**STORAGE:**

Store at -20°C, stable at -20°C for at least 1 year.

**REFERENCES:**

Foletti DL, Scheller RH (2001) Developmental regulation and specific brain distribution of phosphorabphilin. *J Neurosci* 21:5461-5472.

Fykse EM, Li C, Sudhof TC (1995) Phosphorylation of rabphilin-3A by Ca<sup>2+</sup>/calmodulin- and cAMP-dependent protein kinases in vitro. *J Neurosci* 15:2385-2395.

Geppert M, Bolshakov VY, Siegelbaum SA, Takei K, De Camilli P, Hammer RE, Südhof TC (1994) The role of Rab3A in neurotransmitter release. *Nature (Lond)* 369:493-497.

**USER NOTES:**

Optimal dilutions/concentrations should be determined by the end user. The information provided is a guideline for product use. **This product is for research use only.**