Rab3A Antibody (R31735)

Catalog No.	Formulation	Size
R31735	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	5864
Applications	Western blot: 0.5-1ug/ml
Limitations	This Rab3A antibody is available for research use only.



Western blot testing of Rab3A antibody and Lane 1: rat brain; 2: mouse brain lysate

Description

Ras-related protein Rab-3A is a protein that in humans is encoded by the RAB3A gene. Synapsin I stimulated the Rab3A cycle by increasing GTP binding, GTPase activity, and Rab3A recruitment to the synaptic vesicle membrane. Conversely, Rab3A inhibited Synapsin I binding to actin and Synapsin I-induced synaptic vesicle clustering. It has been found that the protein is necessary for both forms of synaptic plasticity, and it is also involved in calcium exocytosis in neurons. In addition to that, Rab3A has been found to regulate a late step in synaptic vesicle fusion.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Rab3A antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 192-220 (DTADPAVTGAKQGPQLSDQQVPPHQDCAC-human) were used as the immunogen for this Rab3A antibody.

Storage

After reconstitution, the Rab3A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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