RAB3A monoclonal antibody

Catalog: MB66919 Host: Mouse Reactivity: Human, Mouse, Rat

BackGround:

The Rab family of proteins includes small, monomeric GTPases essential for regulating intracellular vesicle trafficking. Members of the Rab3 subfamily, including Rab3A-3D, are involved in the exocytosis of neurotransmitters and hormones. Rab3A is primarily expressed in neurons, neuroendocrine cells , and in human pancreatic 尾 cells . By acting as a molecular switch between active GTP-bound Rab3A and the inactive GDP-bound form, Rab3A inhibits synaptic vesicle and chromaffin granule secretion during late membrane release . Loss-of-function studies suggest Rab3A is involved in controlling synaptic vesicle targeting and docking at the active zone . Through binding to its direct effector Rabphillin, Rab3A also orchestrates the coupling between synaptic vesicle exocytosis and endocytosis

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 25 kDa

Swiss-Prot:

P20336

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/10 - 1/50), FC (1/10 - 1/50)

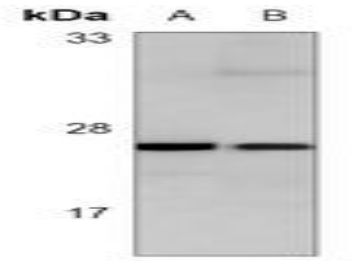
Storage&Stability:

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

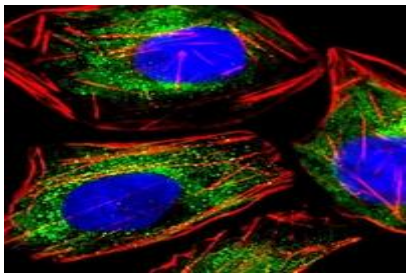
Specificity:

Recognizes endogenous levels of RAB3A protein.

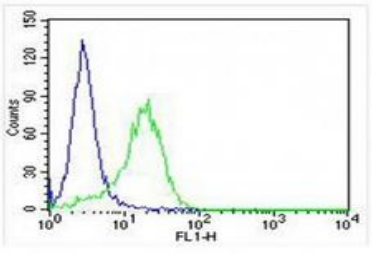
DATA:



Western blot analysis of RAB3A expression in mouse brain (A), rat brain (B) whole cell lysates.



Immunofluorescent analysis of RAB3A staining in PC12 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF555 was used to stain the cytoplasm (red). DAPI was used to stain the cell nuclei (blue).



Note:

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

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