

RAB3GAP2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9635b

Specification

RAB3GAP2 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q9H2M9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	943-972

RAB3GAP2 Antibody (C-term) - Additional Information

Gene ID 25782

Other Names

Rab3 GTPase-activating protein non-catalytic subunit, RGAP-iso, Rab3 GTPase-activating protein 150 kDa subunit, Rab3-GAP p150, Rab3-GAP150, Rab3-GAP regulatory subunit, RAB3GAP2, KIAA0839

Target/Specificity

This RAB3GAP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 943-972 amino acids from the C-terminal region of human RAB3GAP2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RAB3GAP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RAB3GAP2 Antibody (C-term) - Protein Information

Name RAB3GAP2 ([HGNC:17168](#))

Synonyms KIAA0839

Function Regulatory subunit of the Rab3 GTPase-activating (Rab3GAP) complex composed of RAB3GAP1 and RAB3GAP2, which has GTPase-activating protein (GAP) activity towards various Rab3 subfamily members (RAB3A, RAB3B, RAB3C and RAB3D), RAB5A and RAB43, and guanine nucleotide exchange factor (GEF) activity towards RAB18 (PubMed:[24891604](#), PubMed:[9733780](#)). As part of the Rab3GAP complex, acts as a GAP for Rab3 proteins by converting active RAB3-GTP to the inactive form RAB3-GDP (By similarity). Rab3 proteins are involved in regulated exocytosis of neurotransmitters and hormones (By similarity). The Rab3GAP complex acts as a GEF for RAB18 by promoting the conversion of inactive RAB18- GDP to the active form RAB18-GTP (PubMed:[24891604](#)). Recruits and stabilizes RAB18 at the cis-Golgi membrane in human fibroblasts where RAB18 is most likely activated (PubMed:[26063829](#)). Also involved in RAB18 recruitment at the endoplasmic reticulum (ER) membrane where it maintains proper ER structure (PubMed:[24891604](#)). Required for normal eye and brain development (By similarity). May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q5U1Z0}. Endoplasmic reticulum. Note=In neurons, it is enriched in the synaptic soluble fraction {ECO:0000250|UniProtKB:Q5U1Z0}

Tissue Location

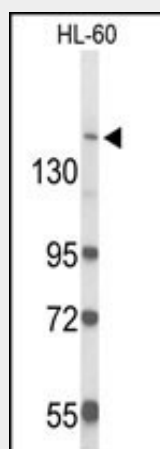
Ubiquitous..

RAB3GAP2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RAB3GAP2 Antibody (C-term) - Images



Western blot analysis of RAB3GAP2 Antibody (C-term) (Cat. #AP9635b) in HL-60 cell line lysates (35ug/lane). RAB3GAP2 (arrow) was detected using the purified Pab.

RAB3GAP2 Antibody (C-term) - Background

RAB3GAP2 belongs to the RAB3 protein family, members of which are involved in regulated exocytosis of neurotransmitters and hormones. This protein forms the Rab3 GTPase-activating complex with RAB3GAP1, where it constitutes the regulatory subunit, whereas the latter functions as the catalytic subunit. This gene has the highest level of expression in the brain, consistent with it having a key role in neurodevelopment.

RAB3GAP2 Antibody (C-term) - References

Niwa, S., et al. Nat. Cell Biol. 10(11):1269-1279(2008)

Ng, E.L., et al. Brain Res Rev 58(1):236-246(2008)

RAB3GAP2 Antibody (C-term) - Citations

- [A novel mouse model of Warburg Micro Syndrome reveals roles for RAB18 in eye development and organisation of the neuronal cytoskeleton.](#)