

RAB3GAP1 Antibody (aa538-587)
Rabbit Polyclonal Antibody
Catalog # ALS15515**Specification**

RAB3GAP1 Antibody (aa538-587) - Product Information

Application	WB
Primary Accession	Q15042
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	111kDa KDa

RAB3GAP1 Antibody (aa538-587) - Additional Information**Gene ID** 22930**Other Names**

Rab3 GTPase-activating protein catalytic subunit, RAB3 GTPase-activating protein 130 kDa subunit, Rab3-GAP p130, Rab3-GAP, RAB3GAP1, KIAA0066, RAB3GAP

Target/Specificity

RAB3GAP1 Antibody detects endogenous levels of total RAB3GAP1 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

RAB3GAP1 Antibody (aa538-587) is for research use only and not for use in diagnostic or therapeutic procedures.

RAB3GAP1 Antibody (aa538-587) - Protein Information**Name** RAB3GAP1**Synonyms** KIAA0066, RAB3GAP**Function**

Catalytic 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:9030515, PubMed:10859313, PubMed:24891604). As part of the Rab3GAP complex, acts as a GAP for Rab3 proteins by converting active RAB3-GTP to the inactive form RAB3-GDP (PubMed:10859313). Rab3 proteins are involved in regulated exocytosis of

neurotransmitters and hormones (PubMed:15696165). 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). Required for recruiting and activating RAB18 at the endoplasmic reticulum (ER) membrane where it maintains proper ER structure (PubMed:24891604). Required for normal eye and brain development (PubMed:15696165, PubMed:23420520). May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters (PubMed:9030515, PubMed:9852129).

Cellular Location

Cytoplasm. Endoplasmic reticulum. Note=In neurons, it is enriched in the synaptic soluble fraction.

Tissue Location

Ubiquitous..

Volume

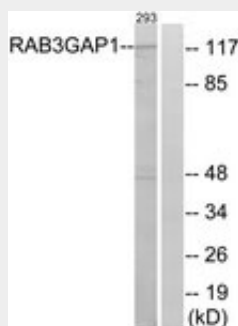
50 µl

RAB3GAP1 Antibody (aa538-587) - 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](#)

RAB3GAP1 Antibody (aa538-587) - Images



Western blot of extracts from 293 cells, using RAB3GAP1 Antibody.

RAB3GAP1 Antibody (aa538-587) - Background

Probable catalytic subunit of a GTPase activating protein that has specificity for Rab3 subfamily (RAB3A, RAB3B, RAB3C and RAB3D). Rab3 proteins are involved in regulated exocytosis of

neurotransmitters and hormones. Specifically converts active Rab3-GTP to the inactive form Rab3-GDP. Required for normal eye and brain development. May participate in neurodevelopmental processes such as proliferation, migration and differentiation before synapse formation, and non-synaptic vesicular release of neurotransmitters.

RAB3GAP1 Antibody (aa538-587) - References

Nomura N.,et al.DNA Res. 1:223-229(1994).
Hillier L.W.,et al.Nature 434:724-731(2005).
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Oishi H.,et al.J. Biol. Chem. 273:34580-34585(1998).