

RAB3GAP1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51827**Specification**

RAB3GAP1 Antibody - Product Information

Application	WB
Primary Accession	Q15042
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	111 KDa
Antigen Region	521 - 580

RAB3GAP1 Antibody - 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

KLH conjugated synthetic peptide derived from human RAB3GAP1

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

RAB3GAP1 Antibody - 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

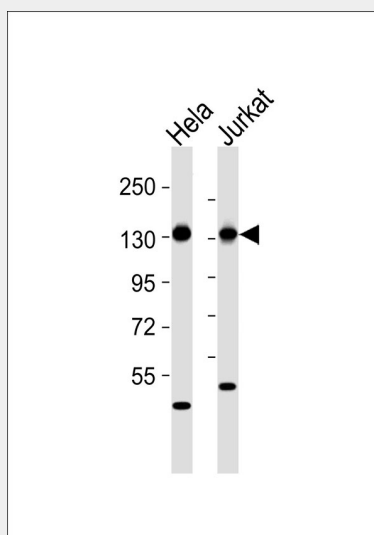
Ubiquitous..

RAB3GAP1 Antibody - 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 - Images



All lanes : Anti-RAB3GAP1 Antibody at 1:1000 dilution Lane 1: Hela whole cell lysates Lane 2: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 111 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

RAB3GAP1 Antibody - 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 - References

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Bechtel S., et al. BMC Genomics 8:399-399(2007).
Fukui K., et al. J. Biol. Chem. 272:4655-4658(1997).
Oishi H., et al. J. Biol. Chem. 273:34580-34585(1998).
Clabecq A., et al. J. Biol. Chem. 275:31786-31791(2000).