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Rab 3 GAP p130 Polyclonal Antibody

Catalog # AP72109

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q15042
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110524

Additional Information

Gene ID	22930
Other Names	RAB3GAP1; KIAA0066; RAB3GAP; Rab3 GTPase-activating protein catalytic subunit; RAB3 GTPase-activating protein 130 kDa subunit; Rab3-GAP p130; Rab3-GAP
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

Name	RAB3GAP1 (HGNC:17063)
Synonyms	KIAA0066, RAB3GAP
Function	Catalytic subunit of the Rab3 GTPase-activating (Rab3GAP) complex composed of RAB3GAP1 and RAB3GAP2, which accelerates the otherwise slow GTP hydrolysis catalyzed by Rab proteins (PubMed:9030515, PubMed:10859313, PubMed:39779760). Has GTPase- activating protein (GAP) activity towards various Rab3 subfamily members (RAB3A, RAB3B, RAB3C and RAB3D), RAB5A and RAB43 (PubMed:10859313, PubMed:9030515, PubMed:39779760). Additionally, it has guanine nucleotide exchange factor (GEF) activity towards RAB18, promoting GDP release from RAB18 and the conversion of inactive RAB18- GDP to the active form RAB18-GTP (PubMed:24891604, PubMed:39779760). Recruits and stabilizes RAB18 at the cis-Golgi membrane in 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 (PubMed:15696165, PubMed:23420520). May participate in neurodevelopmental processes such as cell proliferation, migration and differentiation before synapse formation, and is involved in regulating non-synaptic vesicular release of neurotransmitters (PubMed:9030515, PubMed:9852129).

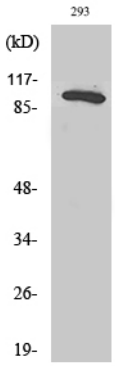
Cellular Location Cytoplasm. Endoplasmic reticulum. Golgi apparatus, cis-Golgi network. Note=In neurons, enriched in the synaptic soluble fraction. Localized to the cis-Golgi in fibroblasts (PubMed:26063829).

Tissue Location Ubiquitous..

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.

Images



Western Blot analysis of various cells using Rab 3 GAP p130 Polyclonal Antibody diluted at 1：2000

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