

Rab 3 GAP p130 Polyclonal Antibody
Catalog # AP72109**Specification****Rab 3 GAP p130 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q15042
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

Rab 3 GAP p130 Polyclonal Antibody - 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.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Rab 3 GAP p130 Polyclonal Antibody - 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 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:10859313, PubMed:24891604, PubMed:9030515). 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). 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 proliferation, migration and differentiation before synapse formation, and 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

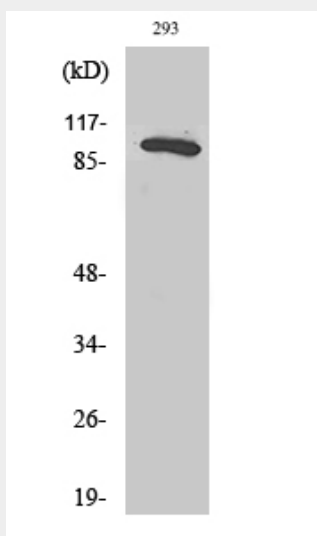
Ubiquitous..

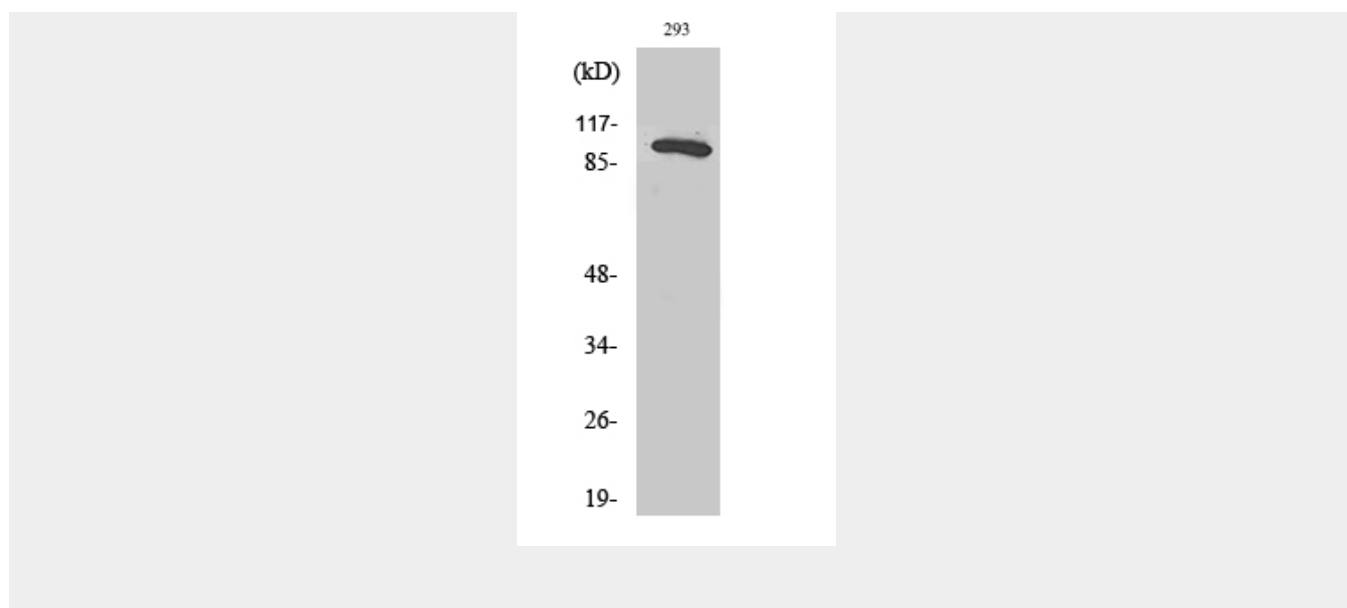
Rab 3 GAP p130 Polyclonal Antibody - Protocols

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](#)

Rab 3 GAP p130 Polyclonal Antibody - Images





Rab 3 GAP p130 Polyclonal 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.