

Rab 3 GAP p150 Polyclonal Antibody
Catalog # AP72110**Specification****Rab 3 GAP p150 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	Q9H2M9
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal

Rab 3 GAP p150 Polyclonal Antibody - Additional Information**Gene ID** 25782**Other Names**

RAB3GAP2; KIAA0839; 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

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

Format

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

Storage Conditions

-20°C

Rab 3 GAP p150 Polyclonal Antibody - Protein Information**Name** RAB3GAP2 ([HGNC:17168](#))**Synonyms** KIAA0839**Function**

Regulatory 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:9733780, PubMed:39779760). The complex has GTPase-activating protein (GAP) activity towards various Rab3 subfamily members (RAB3A, RAB3B, RAB3C and RAB3D), RAB5A and RAB43, and has guanine nucleotide exchange factor (GEF) activity towards RAB18 (PubMed:9733780, PubMed:39779760, PubMed:24891604). The

Rab3GAP complex acts as a GEF for RAB18 by promoting GDP release from RAB18 and the conversion of inactive RAB18-GDP to the active form RAB18-GTP (PubMed:39779760, 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 cell 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

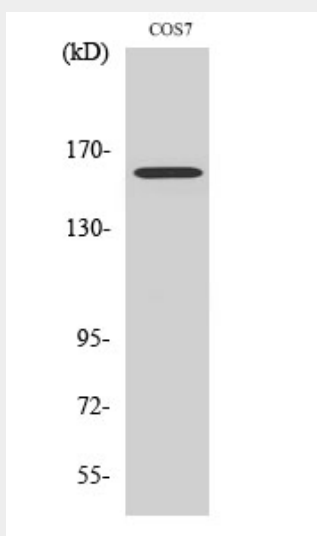
Ubiquitous..

Rab 3 GAP p150 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 p150 Polyclonal Antibody - Images



Western Blot analysis of various cells using Rab 3 GAP p150 Polyclonal Antibody

Rab 3 GAP p150 Polyclonal Antibody - Background

Regulatory 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. Rab3 GTPase-activating complex 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.