

# Rab 3 GAP p150 Polyclonal Antibody

Catalog # AP72110

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9H2M9</a>
<b>Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	155985

## Additional Information

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<b>Gene ID</b>	25782
<b>Other Names</b>	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
<b>Dilution</b>	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
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	RAB3GAP2 ( <a href="#">HGNC:17168</a> )
<b>Synonyms</b>	KIAA0839
<b>Function</b>	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: <a href="#">9733780</a> , PubMed: <a href="#">39779760</a> ). 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: <a href="#">9733780</a> , PubMed: <a href="#">39779760</a> , PubMed: <a href="#">24891604</a> ). 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: <a href="#">39779760</a> , PubMed: <a href="#">24891604</a> ). Recruits and stabilizes RAB18 at the cis-Golgi membrane in human fibroblasts where RAB18 is most likely activated (PubMed: <a href="#">26063829</a> ). 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..

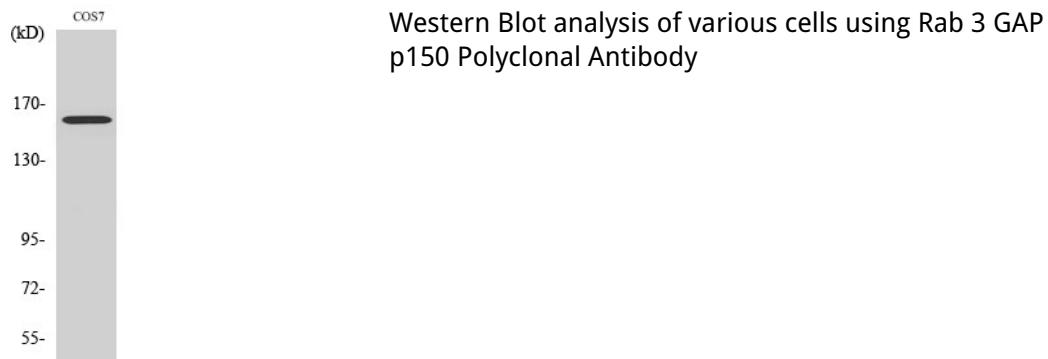
## Background

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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.

## Images

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