10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RAB3IP Polyclonal Antibody

Catalog # AP72129

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q96QF0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53021

Additional Information

Gene ID	117177
Other Names	RAB3IP; RABIN8; Rab-3A-interacting protein; Rab3A-interacting protein; Rabin-3; SSX2-interacting protein
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

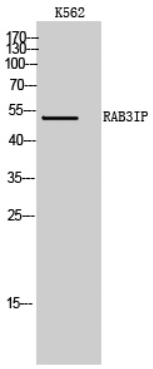
Name	RAB3IP {ECO:0000312|EMBL:CAC59836.1}
Synonyms	RABIN8
Function	Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B (PubMed:12221131, PubMed:26824392). Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form (PubMed:12221131, PubMed:26824392). Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5 (PubMed:20937701, PubMed:26824392). Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface (PubMed:12221131). Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis (PubMed:20890297). Part of the ciliary targeting complex containing Rab11, ASAP1, RAB3IP and RAB11FIP3 and ARF4 that promotes RAB3IP preciliary vesicle trafficking to mother centriole and ciliogenesis initiation (PubMed:25673879, PubMed:31204173).

Cellular Location	Cytoplasm. Nucleus Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Vesicle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Predominantly cytoplasmic but a small proportion colocalizes with SSX2 in the nucleus. Activation of protein kinase C results in redistribution to the periphery of lamellipodia.
Tissue Location	Expressed in brain, kidney, heart, pancreas and placenta. Not detected in skeletal muscle or liver

Background

Guanine nucleotide exchange factor (GEF) which may activate RAB8A and RAB8B. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP- bound form. Mediates the release of GDP from RAB8A and RAB8B but not from RAB3A or RAB5. Modulates actin organization and promotes polarized transport of RAB8A-specific vesicles to the cell surface. Together with RAB11A, RAB8A, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis.

Images



Western Blot analysis of K562 cells using RAB3IP Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.