

RGP1 Antibody

Catalog # ASC10680

Product Information

Application	WB, E
Primary Accession	Q92546
Other Accession	NP_001073965 , 122937426
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	42455
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RGP1 antibody can be used for detection of RGP1 by Western blot at 1 - 2 μ g/mL.

Additional Information

Gene ID	9827
Other Names	RAB6A-GEF complex partner protein 2, Retrograde Golgi transport protein RGP1 homolog, RGP1 (HGNC:21965), KIAA0258
Target/Specificity	RGP1;
Reconstitution & Storage	RGP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	RGP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RGP1 (HGNC:21965)
Synonyms	KIAA0258
Function	The RIC1-RGP1 complex acts as a guanine nucleotide exchange factor (GEF), which activates RAB6A by exchanging bound GDP for free GTP and may thereby required for efficient fusion of endosome-derived vesicles with the Golgi compartment. The RIC1-RGP1 complex participates in the recycling of mannose-6-phosphate receptors.
Cellular Location	Cytoplasm, cytosol. Membrane

Background

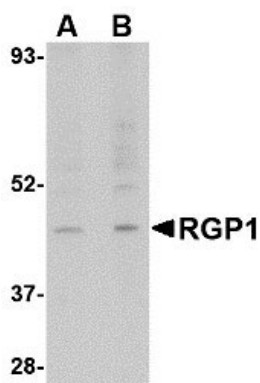
RGP1 Antibody: Retrograde golgi transport homolog 1 (RGP1) is the mammalian homolog to the yeast RGP1, a protein that forms a tight complex with RIC1. This complex binds Ypt6p and stimulates guanine nucleotide exchange. RGP1 is localized to the Golgi and is thought to be a potential Golgi recycling factor. Rgp1 yeast mutants exhibit defects in retrograde trafficking similar to those seen in yeast with mutations in other retrograde Golgi transport proteins. It is expected that RGP1 plays a similar role in mammalian cells to that seen in yeast.

References

Siniosoglou S, Peak-Chew SY, and Pelham HRB. Ric1p and Rgp1 form a complex that catalyzes nucleotide exchange on Ypt6p. EMBO J.2000; 19:4885-94.

Panek HR, Conibear E, Bryan JD, et al. Identification of Rgp1, a novel Golgi recycling factor, as a protein required for efficient localization of yeast casein kinase 1 to the plasma membrane. J. Cell Sci.113:4545-55.

Images



Western blot analysis of RGP1 in human heart tissue lysate with RGP1 antibody at (A) 1 and (B) 2 μ g/mL.

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