

RGP1 Antibody
Catalog # ASC10680**Specification**

RGP1 Antibody - Product Information

Application	WB
Primary Accession	Q92546
Other Accession	NP_001073965 , 122937426
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	RGP1 antibody can be used for detection of RGP1 by Western blot at 1 - 2 µg/mL.

RGP1 Antibody - Additional Information

Gene ID	9827
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.

RGP1 Antibody - 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

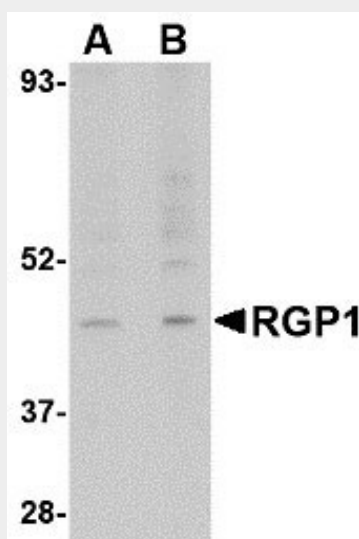
Cytoplasm, cytosol. Membrane

RGP1 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](#)

RGP1 Antibody - Images



Western blot analysis of RGP1 in human heart tissue lysate with RGP1 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.

RGP1 Antibody - 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.

RGP1 Antibody - 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.