

**RGP1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6957b****Specification**

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**RGP1 Antibody (C-term) - Product Information**

Application	FC, IHC-P, WB,E
Primary Accession	<a href="#">O92546</a>
Other Accession	<a href="#">O8BHT7</a> , <a href="#">O2T9P3</a>
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42455
Antigen Region	243-271

**RGP1 Antibody (C-term) - Additional Information****Gene ID** 9827**Other Names**

RAB6A-GEF complex partner protein 2, Retrograde Golgi transport protein RGP1 homolog, RGP1 ([HGNC:21965](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=21965)), KIAA0258

**Target/Specificity**

This RGP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 243-271 amino acids from the C-terminal region of human RGP1.

**Dilution**

FC~~1:10~50  
IHC-P~~1:50~100  
WB~~1:1000  
E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RGP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RGP1 Antibody (C-term) - 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**

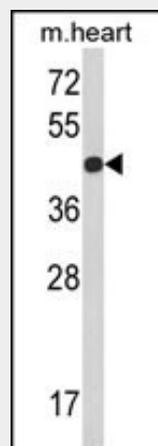
Cytoplasm, cytosol. Membrane

**RGP1 Antibody (C-term) - Protocols**

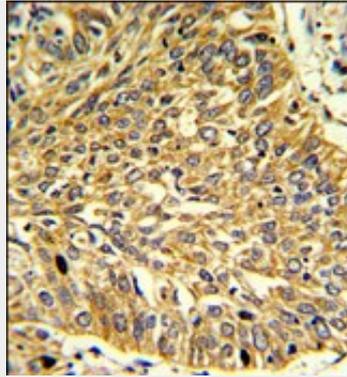
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

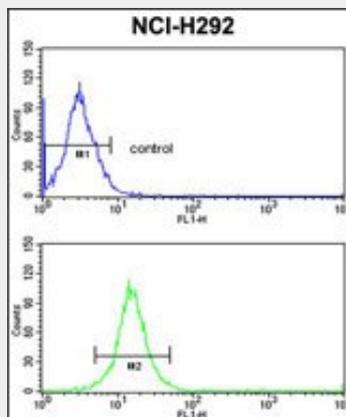
**RGP1 Antibody (C-term) - Images**



Western blot analysis of RGP1 Antibody (C-term) (Cat. #AP6957b) in mouse heart tissue lysates (35ug/lane). RGP1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with RGP1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



RGP1 Antibody (C-term) (Cat. #AP6957b) flow cytometric analysis of NCI-H292 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### RGP1 Antibody (C-term) - Background

Retrograde golgi transport homolog 1 (RGP1) is the mammalian homolog to the yeast RGP1, and is thought to be a potential Golgi recycling factor. The protein forms a tight complex with RIC1 and this complex binds Ypt6p and stimulates guanine nucleotide exchange. RGP1 yeast mutants exhibit defects in retrograde trafficking that are 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.

### RGP1 Antibody (C-term) - References

Gerhard, D.S., et al., Genome Res. 14 (10B), 2121-2127 (2004)