10320 Camino Santa Fe, Suite G
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RGP1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6957b

Specification

RGP1 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q92546
Other Accession	Q8BHT7, Q2T9P3
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), 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
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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

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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.

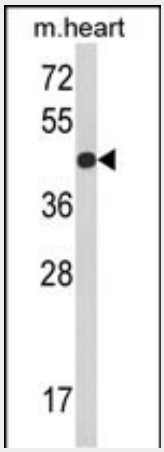
Cellular Location
Cytoplasm, cytosol. Membrane

RGP1 Antibody (C-term) - Protocols

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

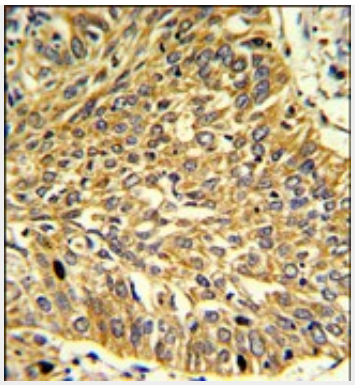
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RGP1 Antibody (C-term) - Images

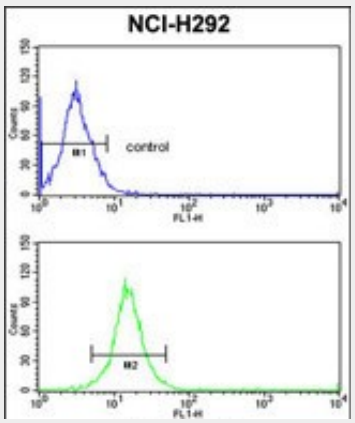


Western blot analysis of RGP1 Antibody (C-term) (Cat. #AP6957b) in mouse heart tissue lysates (35ug/lane). RGP1 (arrow) was detected using the purified Pab.

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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)