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RASIP1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6870c

Specification

RASIP1 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q5U651
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**651-678**

RASIP1 Antibody (Center) - Additional Information

Gene ID 54922

Other Names
Ras-interacting protein 1, Rain, RASIP1

Target/Specificity
This RASIP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 651-678 amino acids from the Central region of human RASIP1.

Dilution
WB~~1:2000
IHC-P~~1:50~100
FC~~1:25
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
RASIP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RASIP1 Antibody (Center) - Protein Information

Name RASIP1

Function Required for the proper formation of vascular structures that develop via both

vasculogenesis and angiogenesis. Acts as a critical and vascular-specific regulator of GTPase signaling, cell architecture, and adhesion, which is essential for endothelial cell morphogenesis and blood vessel tubulogenesis. Regulates the activity of Rho GTPases in part by recruiting ARHGAP29 and suppressing RhoA signaling and dampening ROCK and MYH9 activities in endothelial cells (By similarity). May act as effector for Golgi-bound HRAS and other Ras- like proteins. May promote HRAS-mediated transformation. Negative regulator of amino acid starvation-induced autophagy.

Cellular Location
Cytoplasm, perinuclear region. Golgi apparatus, Golgi stack. Note=Associated with perinuclear vesicles. Is recruited to Golgi stacks by activated HRAS

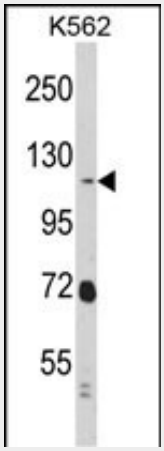
Tissue Location
Highly expressed in heart. Detected at lower levels in placenta and pancreas.

RASIP1 Antibody (Center) - 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

RASIP1 Antibody (Center) - Images



Western blot analysis of RASIP1 Antibody (Center) (Cat. #AP6870c) in K562 cell line lysates (35ug/lane). RASIP1 (arrow) was detected using the purified Pab.

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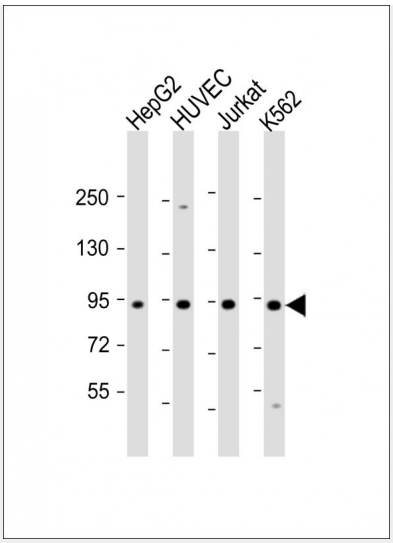
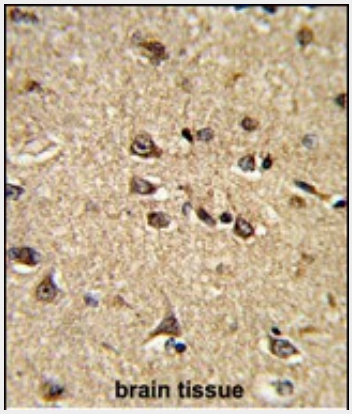
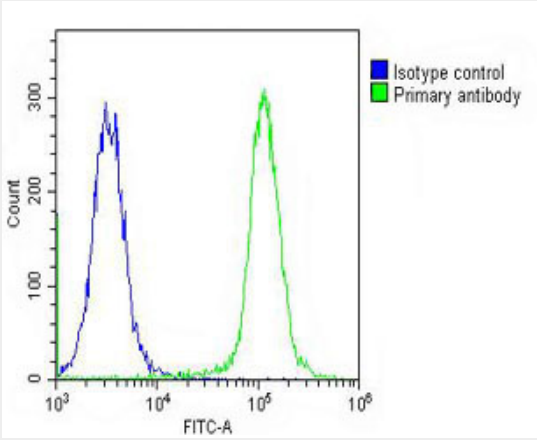


All lanes : Anti-RASIP1 Antibody (Center) at 1:2000 dilution Lane 1: HepG2 whole cell lysate Lane 2: HUVEC whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 103 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue reacted with RASIP1 Antibody (Center), 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.



Overlay histogram showing K562 cells stained with AP6870c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The

cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP6870c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

RASIP1 Antibody (Center) - Background

RASIP1 may act as effector for Golgi-bound HRAS and other Ras-like proteins. May promote HRAS-mediated transformation.

RASIP1 Antibody (Center) - References

Mitin,N.Y.,et.al., J. Biol. Chem. 279 (21), 22353-22361 (2004)

RASIP1 Antibody (Center) - Citations

- Rasip1 mediates Rap1 regulation of Rho in endothelial barrier function through ArhGAP29.