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RAPGEF1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21422c

Specification

RAPGEF1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q13905
Reactivity	**Human**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**120548**

RAPGEF1 Antibody (Center) - Additional Information

Gene ID 2889

Other Names
Rap guanine nucleotide exchange factor 1, CRK SH3-binding GNRP, Guanine nucleotide-releasing factor 2, Protein C3G, RAPGEF1, GRF2

Target/Specificity
This RAPGEF1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 536-569 amino acids from the Central region of human RAPGEF1.

Dilution
WB~~1:2000
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
RAPGEF1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

RAPGEF1 Antibody (Center) - Protein Information

Name RAPGEF1

Synonyms GRF2

Function Guanine nucleotide-releasing protein that binds to SH3 domain of CRK and GRB2/ASH. Transduces signals from CRK to activate RAS. Involved in cell branching and adhesion mediated by BCAR1-CRK-RAPGEF1 signaling and activation of RAP1 (PubMed:12432078). Plays a role in the establishment of basal endothelial barrier function. Plays a role in nerve growth factor (NGF)-induced sustained activation of Rap1 and neurite outgrowth.

Cellular Location
Early endosome.

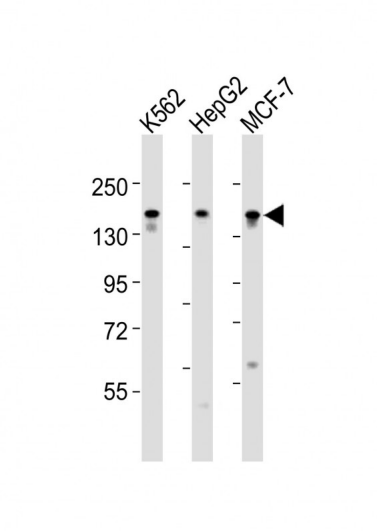
Tissue Location
Ubiquitously expressed in adult and fetus. Expression is high in adult skeletal muscle and placenta and in fetal brain and heart. Low levels of expression in adult and fetal liver

RAPGEF1 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

RAPGEF1 Antibody (Center) - Images



All lanes : Anti-RAPGEF1 Antibody (Center) at 1:1000-1:2000 dilution Lane 1: K562 whole cell lysates Lane 2: HepG2 whole cell lysates Lane 3: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 121 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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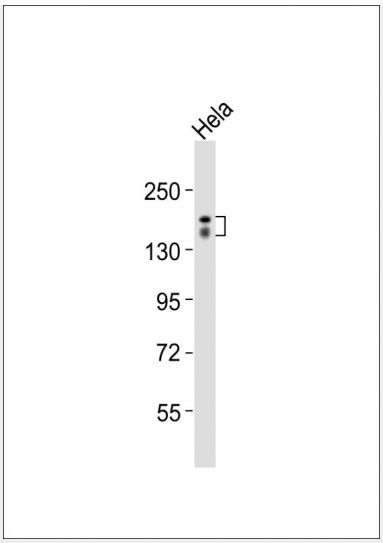

Anti-RAPGEF1 Antibody (Center)at 1:2000 dilution + Hela whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 121 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

RAPGEF1 Antibody (Center) - Background

Guanine nucleotide-releasing protein that binds to SH3 domain of CRK and GRB2/ASH. Transduces signals from CRK to activate RAS. Plays a role in the establishment of basal endothelial barrier function. Plays a role in nerve growth factor (NGF)-induced sustained activation of Rap1 and neurite outgrowth.

RAPGEF1 Antibody (Center) - References

Tanaka S.,et al.Proc. Natl. Acad. Sci. U.S.A. 91:3443-3447(1994).
Knudsen B.,et al.J. Biol. Chem. 269:32781-32787(1994).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Humphray S.J.,et al.Nature 429:369-374(2004).
Matsuda M.,et al.J. Biol. Chem. 271:14468-14472(1996).