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RAPGEF1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21422c

Product Information

Application	WB, E
Primary Accession	Q13905
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52924
Calculated MW	120548

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~~1:1000-1:2000 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.

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

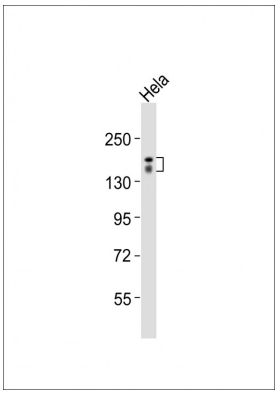
Background

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.

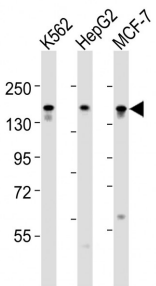
References

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).

Images



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.



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.