10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RASGRP2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21681a

Product Information

Application	WB, E
Primary Accession	Q7LDG7
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB49167
Calculated MW	69248

Additional Information

Gene ID	10235
Other Names	RAS guanyl-releasing protein 2, Calcium and DAG-regulated guanine nucleotide exchange factor I, CalDAG-GEFI, Cdc25-like protein, hCDC25L, F25B33 kinase-like protein, RASGRP2, CDC25L, MCG7
Target/Specificity	This RASGRP2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 108-142 amino acids from the N-terminal region of human RASGRP2.
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	RASGRP2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RASGRP2
Synonyms	CDC25L, MCG7
Function	Functions as a calcium- and DAG-regulated nucleotide exchange factor

	specifically activating Rap through the exchange of bound GDP for GTP. May also activate other GTPases such as RRAS, RRAS2, NRAS, KRAS but not HRAS. Functions in aggregation of platelets and adhesion of T-lymphocytes and neutrophils probably through inside-out integrin activation. May function in the muscarinic acetylcholine receptor M1/CHRM1 signaling pathway.
Cellular Location	Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Synapse, synaptosome. Cell projection, ruffle membrane; Peripheral membrane protein. Note=Found both in the cytosol and associated with membranes. Isoform 2 mainly localizes to the cell membrane. Enriched at juxtamembrane areas and membrane ruffles through association with F- actin. Localizes to the cell bodies and axons of striatal neurons (By similarity).
Tissue Location	Detected in platelets, neutrophils and T lymphocytes (at protein level). Expressed in brain where it is enriched in the striatum. Also expressed in the hematopoietic system. Detected in heart, brain, lung, placenta, liver, skeletal muscle and kidney

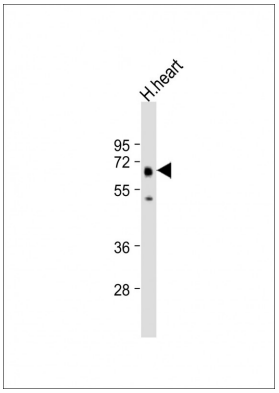
Background

Functions as a calcium- and DAG-regulated nucleotide exchange factor specifically activating Rap through the exchange of bound GDP for GTP. May also activates other GTPases such as RRAS, RRAS2, NRAS, KRAS but not HRAS. Functions in aggregation of platelets and adhesion of T-lymphocytes and neutrophils probably through inside-out integrin activation. May function in the muscarinic acetylcholine receptor M1/CHRM1 signaling pathway.

References

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Kawasaki H.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:13278-13283(1998).
Clyde-Smith J.,et al.J. Biol. Chem. 275:32260-32267(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Images



Anti-RASGRP2 Antibody (N-term) at 1:2000 dilution + human heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.