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RASGRP1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5856c

Specification

RASGRP1 Antibody (Center) Blocking peptide - Product Information

Primary Accession	O95267
Other Accession	NP_005730.2, NP_001122074.1

RASGRP1 Antibody (Center) Blocking peptide - Additional Information

Gene ID 10125

Other Names
RAS guanyl-releasing protein 1, Calcium and DAG-regulated guanine nucleotide exchange factor II, CalDAG-GEFII, Ras guanyl-releasing protein, RASGRP1, RASGRP

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RASGRP1 Antibody (Center) Blocking peptide - Protein Information

Name RASGRP1

Synonyms RASGRP

Function
Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP (PubMed:15899849, PubMed:23908768, PubMed:27776107, PubMed:29155103). Activates the Erk/MAP kinase cascade (PubMed:15899849). Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras (PubMed:10807788, PubMed:12839994, PubMed:27776107, PubMed:29155103). Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and

JNK pathways (PubMed:19933860). Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses. May also function in differentiation of other cell types (PubMed:12845332).

Cellular Location
Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein Note=Found both in the cytosol and associated with membranes Relocalization to the cell membrane upon activation is F-actin- dependent. Translocates to the Golgi in response to phorbol ester or nerve growth factor. Localizes to somata and dendrites but not to axons of hippocampal pyramidal cells (By similarity).

Tissue Location
Expressed in brain with higher expression in cerebellum, cerebral cortex and amygdala. Expressed in the hematopoietic system. Expressed in T-cells (at protein level) Expressed in NK cells (at protein level) (PubMed:19933860)

RASGRP1 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

RASGRP1 Antibody (Center) Blocking peptide - Images