

Rasgrp1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54263

Specification

Rasgrp1 Polyclonal Antibody - Product Information

| | |
|-------------------|--------------------------|
| Application | IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | O95267 |
| Reactivity | Rat, Dog |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 90402 |

Rasgrp1 Polyclonal Antibody - 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

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Rasgrp1 Polyclonal Antibody - 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](http://www.uniprot.org/citations/15899849), PubMed: [23908768](http://www.uniprot.org/citations/23908768), PubMed: [27776107](http://www.uniprot.org/citations/27776107), PubMed: [29155103](http://www.uniprot.org/citations/29155103)). Activates the Erk/MAP kinase cascade (PubMed: [15899849](http://www.uniprot.org/citations/15899849)). Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras (PubMed: [10807788](http://www.uniprot.org/citations/10807788), PubMed: [12839994](http://www.uniprot.org/citations/12839994), PubMed: [27776107](http://www.uniprot.org/citations/27776107), PubMed: [29155103](http://www.uniprot.org/citations/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 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Rasgrp1 Polyclonal Antibody - Images