

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

**Specification**

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**Rasgrp1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">O95267</a>
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:<a href="http://www.uniprot.org/citations/19933860" target="\_blank">19933860</a>). Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses. May also function in differentiation of other cell types (PubMed:<a href="http://www.uniprot.org/citations/12845332" target="\_blank">12845332</a>).

#### **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**