

# RASGRP1 Rabbit mAb

Catalog # AP76314

## Product Information

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Application	WB
Primary Accession	<a href="#">O95267</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	90402

## Additional Information

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Gene ID	10125
Other Names	RASGRP1
Dilution	WB~~1/500-1/1000
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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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: <a href="#">15899849</a> , PubMed: <a href="#">23908768</a> , PubMed: <a href="#">27776107</a> , PubMed: <a href="#">29155103</a> ). Activates the Erk/MAP kinase cascade (PubMed: <a href="#">15899849</a> ). Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras (PubMed: <a href="#">10807788</a> , PubMed: <a href="#">12839994</a> , PubMed: <a href="#">27776107</a> , PubMed: <a href="#">29155103</a> ). Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK pathways (PubMed: <a href="#">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="#">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

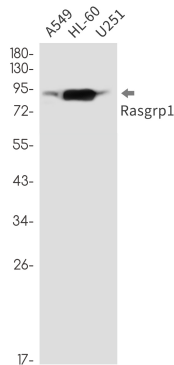
and associated with membranes Relocalization to the cell membrane upon activation is F-actin- dependent. Translocates to the Golgi in response to phorbol ester or nerve growth factor. Localizes to somata and dendrites but not to axons of hippocampal pyramidal cells (By similarity).

### 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)

### Images

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