RASGRP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RASGRP4, Polyclonal Antibody
Full Product Name	RASGRP4 Antibody
Product Gene Name	anti-RASGRP4 antibody
Product Synonym Names	GRP4_HUMAN; Guanyl nucleotide releasing protein 4; RAS guanyl releasing protein 4; RAS guanyl-releasing protein 4; RASGRP4
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	RASGRP4 Antibody detects endogenous levels of RASGRP4.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	RASGRP4 peptide (MBS9632506) is used for blocking the activity of RASGRP4 antibody (MBS9630123)
Molecular Weight	66,972 Da
OMIM	607320
3D Structure	ModBase 3D Structure for Q8TDF6
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human RASGRP4.
Conjugation	Unconjugated
Similarity	The phorbol-ester/DAG-type zinc finger mediates the binding and the functional activation by DAG. Belongs to the RASGRP family.
Tissue Specificity	Expressed by mast cells and their progenitors (at protein level). Specifically expressed in mononuclear leukocytes. Highly expressed in myeloid cells compared to lymphoid cells. Also detected in heart, skeletal muscle, spleen, liver, placenta and lung. Not detected in brain. Isoform 1 is the major isoform in normal individuals. Isoform 2 is more significantly expressed in a patient with asthma. Isoform 3 is more significantly expressed in a patient with asthma and a mastocytosis patient.
Function	Functions as a cation- and diacylglycerol (DAG)-regulated nucleotide exchange factor activating Ras through the exchange of bound GDP for GTP. May function in mast cells differentiation.
Note	Recruited to membranes upon activation by DAG.
Product Categories/Family for anti-RASGRP4 antibody	Cytoplasm; Cell membrane; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Applications Tested/Suitable for anti-RASGRP4 antibody	ELISA (EIA)(peptide)
Application Notes for anti-RASGRP4 antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-RASGRP4 antibody	MBS9630123 is an antibody targeting RASGRP4. Also known as RASGRP4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-RASGRP4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASGRP4. It may not necessarily be applicable to this product.

NCBI GI #	226246586
NCBI GeneID	115727
NCBI Accession #	NP_001139679.1
UniProt Primary Accession #	Q8TDF6
UniProt Secondary Accession #	Q8N858; Q96QN5; Q96QN6; A6H8M4; C0LTP2; C0LTP3; C0LTP4; C0LTP5; C0LTP7; C9J416; C9JHZ1
UniProt Related Accession #	Q8TDF6
GenBank Nucleotide #	NM_001146207.1
NCBI Official Full Name	RAS guanyl-releasing protein 4 isoform g
NCBI Official Synonym Full Names	RAS guanyl releasing protein 4
NCBI Official Symbol	RASGRP4
UniProt Protein Name	RAS guanyl-releasing protein 4
Protein Family	RAS guanyl-releasing protein
UniProt Gene Name	RASGRP4
UniProt Entry Name	GRP4_HUMAN
NCBI Protein Information	RAS guanyl-releasing protein 4
NCBI Summary for RASGRP4	The protein encoded by this gene is a member of the Ras guanyl nucleotide-releasing protein (RasGRP) family of Ras guanine nucleotide exchange factors. It contains a Ras exchange motif, a diacylglycerol-binding domain, and two calcium-binding EF hands. This protein was shown to activate H-Ras in a cation-dependent manner in vitro. Expression of this protein in myeloid cell lines was found to be correlated with elevated level of activated RAS protein, and the RAS activation can be greatly enhanced by phorbol ester treatment, which suggested a role of this protein in diacylglycerol regulated cell signaling pathways. Studies of a mast cell leukemia cell line expressing substantial amounts of abnormal transcripts of this gene indicated that this gene may play an important role in the final stages of mast cell development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]
Research Articles on RASGRP4	**1.** Ras guanine nucleotide-releasing protein 4 is aberrantly expressed in the fibroblast-like synoviocytes of patients with rheumatoid arthritis and controls their proliferation.
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