

Recombinant Full Length Human RASGRP1 Protein, C-Flag-tagged

Cat. No. RASGRP1-556HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RASGRP1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of a family of genes characterized by the presence of a Ras superfamily guanine nucleotide exchange factor (GEF) domain. It functions as a diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. It activates the Erk/MAP kinase cascade and regulates T-cells and B-cells development, homeostasis and differentiation. Alternatively spliced transcript variants encoding different isoforms have been identified. Altered expression of the different isoforms of this protein may be a cause of susceptibility to systemic lupus erythematosus (SLE).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	90.2 kDa
AA Sequence	MGTLGKAREAPRKPSHGCRAASKARLEAKPANSFPFSPHPSLAHITQFRMMVSLGHL AKGASLDDLIDSCI QSFDADGNLCRSNQLLQVMLTMHRIVISSAELLQKVITLYKDAL AKNSPGLCLKICYFVRYWITEFWVMF KMDASLTDTMEEFQELVKAKGEELHCRLIDT TQINARDWSRKL TQRIKSNTSKKRKVSLFLDHLEPEELS EHLTYLEFKSFRRISFSDY

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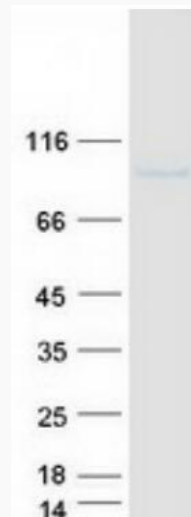
 45-1 Ramsey Road, Shirley, NY 11967, USA

QNYLVNSCVKENPTMERSIALCNGISQWVQLMVLSRPTPQLRAEVFIKFIQ VAQKLH
 QLQNFNTLMAVIGGLCHSSISRLKETSSHVPHEINKVLGEMTELLSSSRNYDNYRRA
 YGECTDF KIPILGVHLKDLISLYEAMPDYLEDGKVN VHKLLALYNHISELVQLQEVP
 PLEANKDLVHLLTSLDLY YTEDEIYELSYAREPRNHRAPPLTPSKPPVVVDWASGV
 SPKPDPKTISKHVQRMVDSVFKNYDHDQDGYI SQEEFEKIAASFPSFCVMDKDRE
 GLISRDEITAYFMRASSIYSKLGLGFPHNFQETTYLKPTFCDCNCAG FLWGVIKQGYR
 CKDCGMNCHKQCKDLVFECKKRAKNPVAPTENNTSVGPVSNLCSLGAKDLLHAP
 EEGP FTFPNGEAVEHGEESKDRITIMLMGVSSQKISLRLKRAVAHKATQTESQPWIG
 SEGPSGPFVLSSPRKTAQ DTLYVLPSTSPCPSVLVRKRAFKWENKDSLKSKE
 ELRHLRLPTYQELEQEINTLKADNDALKIQLK
 YAQKKIESLQLEKSNHVLAQMEQGDCSTRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	MAPK signaling pathway, T cell receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	RASGRP1 RAS guanyl releasing protein 1 [Homo sapiens (human)]
Official Symbol	RASGRP1
Synonyms	IMD64; RASGRP; CALDAG-GEFI; CALDAG-GEFII
Gene ID	10125
mRNA Refseq	NM_005739.4
Protein Refseq	NP_005730.2
MIM	603962
UniProt ID	O95267



Coomassie blue staining of purified RASGRP1 protein.

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