

Recombinant Human RASGRP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RASGRP1-1166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RASGRP1 MS Standard C13 and N15-labeled recombinant protein (NP_005730) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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).
Molecular Mass	90.4 kDa
AA Sequence	MGTLGKAREAPRKPSHGCRAASKARLEAKPANSPPFSPHPSLAHITQFRMMVSLGHL AKGASLDDLIDSCIQSFADGNLCRSNQLLQVMLTMHRIVISSAELLQKVITLYKDALA KNSPGLCLKICYFVRYWITEFWVMFKMDASLTDMEEFQELVKAKGEELHCRLIDTT QINARDWSRKLTQRIKSNTSKKRKVSLLFDHLEPEELSEHLTYLEFKSFRRISFSDYQ NYLVNSCVKENPTMERSIALCNGISQWVQLMVLRSRPTQLRAEVFIKFIQVAQKLHQ

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LQNFNTLMAVIGGLCHSSISRLKETSSHVPHEINKVLGEMTELLSSSRNYDNYRRAY
 GECTDFKIPILGVHLKDLISLYEAMPDYLEDGKVN VHKLLALYNHISELVQLQEVAPPL
 EANKDLVHLLTSLDLYYTEDEIYELSYAREPRNHRAPPLTPSKPPVVVDWASGVSP
 KPDPKTISKHVQRMVDSVFKNYDHDQDGYISQEEFEKIAASFPSFCVMDKDREGLI
 SRDEITAYFMRASSIYSKLG LGFPHNFQETTYLKPTFCDCAGFLWGVKQGYRCKD
 CGMNCHKQCKDLVVFECKKRAKNPVAPTENNTSVGPVSNLCSLGAKDLLHAPEEG
 PFTFPNGEAVEHGEESKDRITIMLMGVSSQKISLRLKRAVAHKATQTESQPWIGSEG
 PSGPFVLSSPRKTAQDTLYVLPSPTSPCPSVLVRKRAFVKWENKDSLKSKEELRH
 LRLPTYQELEQEINTLKADNDALKIQLKYAQKKIESLQLEKSNHVLAQMEQGDCSTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name RASGRP1 RAS guanyl releasing protein 1 [Homo sapiens (human)]

Official Symbol RASGRP1

Synonyms RASGRP1; RAS guanyl releasing protein 1 (calcium and DAG-regulated); RAS guanyl-releasing protein 1; CalDAG GEFII; RASGRP; ras activator RasGRP; RAS guanyl nucleotide-releasing protein 1; calcium and DAG-regulated guanine nucleotide

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exchange factor II; guanine nucleotide exchange factor, calcium- and DAG-regulated, Rap1A; V; hRasGRP1; CALDAG-GEFI; CALDAG-GEFII; MGC129998; MGC129999;

Gene ID [10125](#)

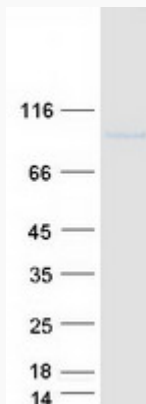
mRNA Refseq [NM_005739](#)

Protein Refseq [NP_005730](#)

MIM [603962](#)

UniProt ID [O95267](#)

SDS-PAGE



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