

Product datasheet for TP312473

RASGRP1 (NM_005739) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human RAS guanyl releasing protein 1 (calcium and DAG-regulated) (RASGRP1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212473 protein sequence Red=Cloning site Green=Tags(s)

MGTLGKAREAPRKPSHGCRAASKARLEAKPANSPPFSPHSLAHITQFRMMVSLGHLAKGASLDDLDLSDCI
QSFADAGNLCRSNQLLQVMLTMHRIVISSAELLQKVITLYKDALAKNSPGLCLKICYFVRYWITEFWVMF
KMDASLTDMEEFQELVKAKGEEELHCRLLIDTTQINARDWSRKLTRIKSNTSKKRKVSLLFDHLEPEELS
EHLTYLEFKSFRRISFSDYQNYLVNSCVKENPTMERSIALCNGISQWVQLMVLSRPTPQLRAEVFIKFIQ
VAQKLHQLQNFNTLMAVIGGLCHSSISRLKETSSHVPHEINKVLGEMTELLSSSRNYDNYRRAYGECTDF
KIPILGVHLKDLISLYEAMPDYLEDGKVNVAHLLALYNHISELVQLQEVAPPLEANKDLVHLLTSLDLY
YTEDEIYELSYAREPRNHRAPPLTPSKPPVVDWASGVSPKDPKTISKHVQRMVDSVFKNYDHDQDGYI
SQEEFEKIAASFPSFCVMDKDREGLISRDEITAYFMRASSIYKLGGLGPHNFQETTYLKPTFCDCNAG
FLWGVKQGYRCKDCGMNCHKQCKDLVFECKKRAKNPVAPTENNTSVGPVSNLCSLGAKDLLHAPEEGP
FTFPNGEAVEHGEESKDRITIMLMGVSSQKISLRLKRAVAHKATQTESQPWIGSEGPSGPFVLSPPRKAQ
DTLYVLPSPSPVLRKRAFVKWENKDSLKSKELRHLRLPTYQELEQEINTLKADNDALKIQLK
YAQKKIESLQLEKSNHVLAQMEQGDCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	90.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005730](#)

Locus ID: 10125

UniProt ID: [O95267](#), [B2RA89](#)

RefSeq Size: 5048

Cytogenetics: 15q14

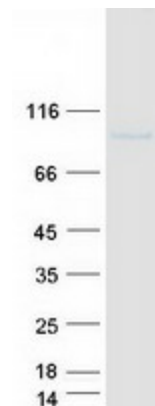
RefSeq ORF: 2391

Synonyms: CALDAG-GEFI; CALDAG-GEFII; IMD64; RASGRP

Summary: 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). [provided by RefSeq, Jul 2008]

Protein Pathways: MAPK signaling pathway, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified RASGRP1 protein (Cat# TP312473). The protein was produced from HEK293T cells transfected with RASGRP1 cDNA clone (Cat# [RC212473]) using MegaTran 2.0 (Cat# [TT210002]).