

Product datasheet for **TP312473M**

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, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212473 protein sequence Red =Cloning site Green =Tags(s)

MGTLGKAREAPRKPSHGCRAASKARLEAKPANSPPFSPHSLAHITQFRMMVSLGHLAKGASLDDLIDSCI
QSFADAGNLCRSNQLLQVMLTMHRIVISSAELLQKVITLYKDALAKNSPGLCLKICYFVRYWITEFWVMF
KMDASLTDMEEFQELVKAKGEEELHCRLLIDTTQINARDWSRKLTRIKSNTSKKRKVSLLFDHLEPEELS
EHLTYLEFKSFRRISFSDYQNYLVNSCVKENPTMERSIALCNGISQWVQLMVLSRPTPQLRAEVFIKFIQ
VAQKLHQLQNFNTLMAVIGGLCHSSISRLKETSSHVPHEINKVLGEMTELLSSSRNYDNYRRAYGECTDF
KIPILGVHLKDLISLYEAMPDYLEDGKVNVAHLLALYNHISELVQLQEVAPPLEANKDLVHLLTSLDLY
YTEDEIYELSYAREPRNHRAPPLTPSKPPVVVDWASGVSPKPKTISKHVQRMVDSVFKNYDHDQDGYI
SQEEFEKIAASFPSFCVMDKDREGLISRDEITAYFMRASSIYKLGGLGPHNFQETTYLKPTFCDCNAG
FLWGVIKQGYRCKDCGMNCHKQCKDLVFECKKRAKNPVAPTENNTSVGPVSNLCSLGAKDLLHAPEEGP
FTFPNGEAVEHGEESKDRITIMLMGVSSQKISLRLKRAVAHKATQTESQPWIGSEGSPGPFVLSPPRKAQ
DTLYVLPSPSPVLRKRAFVKWENKDSLKISKEELRHLRLPTYQELEQEINTLKADNDALKIQLK
YAQKKIESLQLEKSNHVLAQMEQGDCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

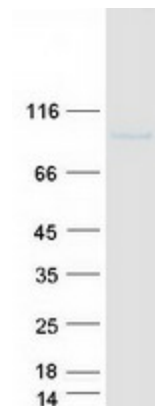
Tag:	C-Myc/DDK
Predicted MW:	90.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity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