

## Product datasheet for TP510704

### Rasgrp1 (NM\_011246) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse RAS guanyl releasing protein 1 (Rasgrp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210704 representing NM_011246 Red=Cloning site Green=Tags(s)

MGTLGKAREAPRKPC HGSRAGPKARLEAKSTNSPLPAQPSLAQITQFRMMVSLGHLAKGASLDDLIDSCI  
 QSFDADGNLCRNNQLLQVMLTMHRIISSAELLQKVMNLYKDALEKNSPGVCLKICYFVRYWITEFWIMF  
 KMDASLTSTMEEFQDLVKANGEETHCHLIDTTQINSRDWSRKLTRIKSNTSKKRKVSLLFDHLEPEELS  
 EHLTYLEFKSFRISFSDYQNYLVNSCVKENPTMERSIALCNGISQVWVQLMVLRSRPTPQLRAEVFIKFIH  
 VAQKLHQLQNFNTLMAVIGGLCHSSISRLKETSSHVPHEINKVLGEMTELLSSCRNYDNYRRAYGECTHF  
 KIPILGVHLKDLISLYEAMPDYLEDGKVVNQKLLALYNHINELVQLQEMAPPLDANKDLVHLLTSLDLY  
 YTEDEIYELSYAREPRNHRAPLTPSKPPVVDWASGVSPKDPKTISKHVQRMVDSVFKNYDLDDQDGYI  
 SQEEFEKIAASFPFSFCVMDKDREGLISRDEITAYFMRASSIYKLGFGPHNFQETTYLKPTFCDCNAG  
 FLWGVKIQGYRCKDCGMNCHKQCKDLVVFCKKRIKSPAISTENISSVPMSTLCPLGTKDLLHAPEEGS  
 FIFQNGEIVDHSESKDRTIMLLGVSSQKISVRLKRTVAHKSTQTESFPWVGGETTPGHFVLSPPRKSQAQ  
 GALYVHSPASPCSPALVRKRAFVKWENKESLIKPKPELHLRLRITYQELEQEINTLKADNDALKIQLKYA  
 QKKIESLQLGKSNHVLAQMDHGDSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	90.8 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
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 after receiving vials.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_035376</a>
<b>Locus ID:</b>	19419
<b>UniProt ID:</b>	<a href="#">Q9Z1S3</a>
<b>RefSeq Size:</b>	5155
<b>Cytogenetics:</b>	2 59.19 cM
<b>RefSeq ORF:</b>	2385
<b>Synonyms:</b>	Rasgrp
<b>Summary:</b>	Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. Activates the Erk/MAP kinase cascade. Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras. Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK pathways (By similarity). Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses (PubMed:17190838). May also function in differentiation of other cell types. Proto-oncogene, which promotes T-cell lymphomagenesis when its expression is deregulated (PubMed:15829980, PubMed:17210708).[UniProtKB/Swiss-Prot Function]