



Recombinant Rat RAS guanyl-releasing protein 4 (Rasgrp4)

Product Code	CSB-MP848140RA
Abbreviation	Rasgrp4
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8R5I4
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MNRKDIKRKS HQECSGKAGG HGRPRQARRH KTCPTPREIS KVMASLNLGV LSESSCSVDE LLEECIRCFD SAGSLHRGDH ILKMLTMHS WVLPSSDLAA RLLTSYQKAA KDARELRQLQ ICYLVRYWLT HHPEVVHQEP QLEAIINRFW TTVAQEGNMA QRSLGDASN LSPGGPGPPP LMSSPGLGKK RKVSLFDHL ETEELAQHLT YLEFRSFQAI TPQDLRGYVL QGSVRGCPAL EGSVGLSNSV SRWVQVMVLS RPGPAQRAQV LDKFIRVAQR LRQMGNFNTL MAVTGGLCHS AISRLKDSHV HLSPDSTKAL LELTELLSSH NNYAYRRTW ASCTDFRLPV LGVHLKDLVS LYEAHPDRLP DGRLHLPKLN SLYLRLQELA ALQRQHPPCS ANEDLLHLLT LSLDLFYTED EIYELSYARE PRCPKSLPLS PFKAPVVVEW AHGVTPKPS ATLGQHVEQL VESVFKNYDP EGHGSISLED FEKLSANFPF ACHGLHPPPR HGSGSFSREE LTKYLLHASA ICSKLGLAFL HAFQEVTFRK PTFCHSCNGF VSTGPLWGVT KRGYRCQDCG LCCHRHCRDQ VRVECKKRPE TKGDPGPPGA PGPATPLPPT GCGSEEGLSY TLSPHLESGC HLHHAWTQTE SSHSSWEPEM VPCPAPVLPS KASSKSSV
Source	Mammalian cell
Target Names	Rasgrp4
Protein Names	Recommended name: RAS guanyl-releasing protein 4
Expression Region	1-678
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein is a member of the Ras guanyl nucleotide-releasing protein (RasGRP) family of Ras guanine nucleotide exchange factors. It contains a Ras exchange motif, a diacylglycerol-binding domain, and two calcium-binding EF hands. This protein was shown to activate H-Ras in a cation-dependent manner in vitro. Expression of this protein in myeloid cell lines was found to be



correlated with elevated level of activated RAS protein, and the RAS activation can be greatly enhanced by phorbol ester treatment, which suggested a role of this protein in diacylglycerol regulated cell signaling pathways. Studies of a mast cell leukemia cell line expressing substantial amounts of abnormal transcripts of this gene indicated that this gene may play an important role in the final stages of mast cell development. Multiple transcript variants encoding different isoforms have been found for this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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