



# Recombinant Mouse RAS guanyl-releasing protein 4 (Rasgrp4)

<b>Product Code</b>	CSB-MP805334MO
<b>Abbreviation</b>	Rasgrp4
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q8BTM9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MNRKDIKRKS HQECSGKAGG RGRSRQARRH KTCPTPREIS KVMASMN LGV LSESSCSEDE LLEECIRCFD SAGSLRRGDH ILKMVLTMHS WVLPSSELAA RLLTSYQKAA KDAQELRQLQ ICYLVRYWLT HHHEAVHQEP QLEAVISRFW TTVAQEGNMA QRSLGDASSL LSPGGPGPPP PMSSPGLGKK RKVSL LFDHL ETEELAQHLT YLEFRSFQAI TPQDLRGYVL QGSVRGCPAL EGSVGLSNSV SRWVQVMVLS RPGPAQRAQV LDKFIRVAQR LHQLQNFNTL MAVTGGLCHS AISRLKDSHV HLSPDSTKAL LELTELLSSH NNYAHYRRTW AGCTGFRLPV LGVHLKDLVS LYEAHPDRLP DGRHLPLKLN SLYLRLQELM ALQGQHPPCS ANEDLLHLLT LSLDLFYTED EIYELSYARE PRCPKSLPPS PFKAPVVVEW AQQVTPKPDS VTLGQHVEQL VESVFKNYDP EGRGSISLED FERLSGNFPF ACHGLHPPPR HGSGSFSREE LTKYLLHASA ICSKLGLAFL HAFQEVTRK PTFCHSCSGF LWGVTKQGYR CRDCGLCCHR HCRDQVRVEC KKRPETKGDG PPGAPVPAT SLPPANCSE ESLSYTLSPD PESGCHLRHA WTQTESSHSS WEPEVPCPA RVLPSRASSK PSV
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Rasgrp4
<b>Protein Names</b>	Recommended name: RAS guanyl-releasing protein 4
<b>Expression Region</b>	1-673
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.

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**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.

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**Shelf Life**

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