

Recombinant Human RASGRP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RASGRP2-4072H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RASGRP2 MS Standard C13 and N15-labeled recombinant protein (NP_001092140) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a brain-enriched nucleotide exchanged factor that contains an N-terminal GEF domain, 2 tandem repeats of EF-hand calcium-binding motifs, and a C-terminal diacylglycerol/phorbol ester-binding domain. This protein can activate small GTPases, including RAS and RAP1/RAS3. The nucleotide exchange activity of this protein can be stimulated by calcium and diacylglycerol. Four alternatively spliced transcript variants encoding two different isoforms have been found for this gene.
Molecular Mass	69.2 kDa
AA Sequence	MAGTLDLKDGCTVEELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKL LHIYQQSRKDNSNSLQVKTCHLVRYWISAFPAEFDLNPELAEQIKELKALLDQEGNR RHSSLIDIDSVPTYKWK RQVTQRNPVGQKKRKMSLLFDHLEPMELAEHLTYLEYRSF CKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFV HVAEKLLQLQNFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGN YGNYYRRRLAACVGRFPILGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSILE

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ELAMVTSLRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRSKSSPTSPTSCT
 PPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEEFQIIRG
 NFPYLSAFGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVA
 CRHCKALILGIYKQGLKCRACGVNCHKQCKDRLSVECRRAQSVSLEGSAPSPSPM
 HSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTVEDGVFDIHLTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name RASGRP2 RAS guanyl releasing protein 2 [Homo sapiens (human)]

Official Symbol RASGRP2

Synonyms RASGRP2; RAS guanyl releasing protein 2 (calcium and DAG-regulated); RAS guanyl-releasing protein 2; CALDAG GEF1; hCDC25L; cdc25-like protein; F25B3.3 kinase-like protein; guanine exchange factor MCG7; RAS guanyl nucleotide-releasing protein 2; calcium and DAG-regulated guanine nucleotide exchange factor I; calcium and diacylglycerol-regulated guanine nucleotide exchange factor I; CDC25L; CALDAG-GEFI;

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Gene ID	10235
mRNA Refseq	NM_001098670
Protein Refseq	NP_001092140
MIM	605577
UniProt ID	Q7LDG7
SDS-PAGE	