

Recombinant Full Length Human RASGRP2 Protein, C-Flag-tagged

Cat. No. RASGRP2-662HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RASGRP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	69.1 kDa
AA Sequence	MAGTLDLDKGCTVEELLRGCIEAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKL LHIYQQSRKDNSNS LQVKTCHLVRYWISAFPAEFDLNPELAEQIKELKALLDQEGNR RHSSLIDIDSVPYTKWKRQVTQRNPVG QKKRKMSLLFDHLEPMELAEHLTYLEYRS FCKILFQDYHSFVTHGCTVDNPVLERFISLFSVSQWVQLM ILSKPTAPQRALVITHF VHVAEKLLQLQNFTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELV TATG

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NYGNYRRRLAACVGFRFPILGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSIL
EELAMVTSL RPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRSKSSPTSPTS
CTPPPRPPVLEEWTSAAKPKLDQ ALVVEHIEKMVESVFRNFDVDGDGHISQEEFQII
RGNFPYLSAFGDLQNDGCISREEMVSFYLRSVV LGGRMGFVHNFQESNSLRP
VACRHCKALILGIYKQGLKCRACGVNCHKQCKDRLSVECRRAQSVSLEGS
APSPSPMHSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTVEDGVFDIHLTRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Chemokine signaling pathway, MAPK signaling pathway
Full Length	Full L.

GENE INFORMATION

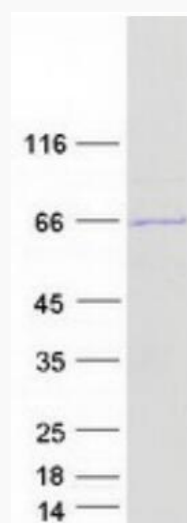
Gene Name	RASGRP2 RAS guanyl releasing protein 2 [Homo sapiens (human)]
Official Symbol	RASGRP2
Synonyms	CDC25L; CALDAG-GEFI

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Gene ID	10235
mRNA Refseq	NM_001098671.2
Protein Refseq	NP_001092141.1
MIM	605577
UniProt ID	Q7LDG7



Coomassie blue staining of purified RASGRP2 protein.