

Recombinant Human RASGRP2, His-tagged

Cat. No. RASGRP2-31042TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 230-609 of Human RASGRP2 with an N terminal His tag. Observed mwt: 50 kDa ;
Species	Human
Source	E.coli
ProteinLength	230-609 a.a.
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. Three alternatively spliced transcript variants encoding the same protein have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 124 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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**Sequences of amino acids**

VAEKLQLQNFNLTMAVVGGLSHSSISRLKETHSHVSPET IKLWEGLTELVATGNY
GNYRRRLAACVGFRFPILGVH LKDLVALQLALPDWLDPARTRLNGAKMKQLFSILEE
LAMVTSLRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQRE PRSKSSPTSPTSCTP
PPRPPVLEEWTSAAKPKLDQALV VEHIEKMVESVFRNFDVDGDGHISQEEFQIIRGN
FPYLSA FGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNF QESNSLRPVAC
RHCKALILGIYKQGLKCRACGVNCHKQ CKDRLSVECCRRAQSVSLEGSAPSPSPM
HSHHHRAFSFSL PRPGRRGSRPPEIREEEVQTVEDGVFDIHL

GENE INFORMATION

Gene Name	RASGRP2 RAS guanyl releasing protein 2 (calcium and DAG-regulated) [Homo sapiens]
Official Symbol	RASGRP2
Synonyms	RASGRP2; RAS guanyl releasing protein 2 (calcium and DAG-regulated); RAS guanyl-releasing protein 2; CALDAG GEF1;
Gene ID	10235
mRNA Refseq	NM_001098670
Protein Refseq	NP_001092140
MIM	605577
Uniprot ID	Q7LDG7
Chromosome Location	11q13

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Pathway	Adaptive Immune System, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem;
Function	calcium ion binding; calcium ion binding; diacylglycerol binding; guanyl-nucleotide exchange factor activity; lipid binding;

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