

Recombinant Human RASGRP2 protein, MYC/DDK-tagged

Cat. No. RASGRP2-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RASGRP2, transcript variant 4, fused with MYC/DDK tag at C-terminal was expressed in HEK293.
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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	69.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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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; 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;
Gene ID	10235
mRNA Refseq	NM_001098671
Protein Refseq	NP_001092141
MIM	605577
UniProt ID	Q7LDG7
Chromosome Location	11q13
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; GPCR downstream signaling, organism-specific biosystem; Hemostasis, organism-specific biosystem;

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Function

calcium ion binding; calcium ion binding; diacylglycerol binding; guanyl-nucleotide exchange factor activity; lipid binding;

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