

Recombinant Human RAPGEF3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RAPGEF3-3474H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAPGEF3 MS Standard C13 and N15-labeled recombinant protein (NP_001092002) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Guanine nucleotide exchange factor (GEF) for RAP1A and RAP2A small GTPases that is activated by binding cAMP. Through simultaneous binding of PDE3B to RAPGEF3 and PIK3R6 is assembled in a signaling complex in which it activates the PI3K gamma complex and which is involved in angiogenesis. Plays a role in the modulation of the cAMP-induced dynamic control of endothelial barrier function through a pathway that is independent on Rho-mediated signaling. Required for the actin rearrangement at cell-cell junctions, such as stress fibers and junctional actin.
Molecular Mass	99.2 kDa
AA Sequence	MVLRRMHRPRSCSYQLLLEHQRPSCIQGLRWTPLTNSEESLDFSESLEQASTERVL RAGRQLHRHLLATCPNLIRDRKYHLRLYRQCCSGRELVDGILALGLGVHSRSQVVGI CQVLLDEGALCHVKHDWAFQDRDAQFYRFPGPEPEPVGTHEMEEELAEAVALLSQ RGPDALLTVALRKPPGQRTDEELDLIFEELLHIKAVAHLSNSVKRELA AVLLFEPHSK AGTVLFSQGDKGTSWYIIWKGSVNVVTHGKGLVTTLHEGDDFGQLALVNDAPRAATI ILREDNCHFLRVDKQDFNRIIKDVEAKTMRLEEKGKVVVLVERASQGAGPSRPPTPG

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RNRYTVMSGTPEKILELLEAMGPDSSAHDPTETFLSDFLLTHRVMPSAQLCAALL
 HFFHVEPAGGSEQRSTYVCNKRQQILRLVLSQWVALYGSMLHTDPVATSFLQKLSL
 LVGRDTRLSNLLREQWPERRRCHRENGCGNASPQMARNLPVWLPNQDEPLPG
 SSCAIQVGDKVPYDICTPDHSLVTLQLPVTASVREVMALAQAEDGWTGGQVLVKN
 SAGDAIGLQPDARGVATSLGLNERLFVVPQEVHELIPHPDQLGPTVGSAEGLDLVS
 AKDLAQQLTDHDWLSFNLSIHQVELIHYVLGPQHRLRDVTTANLERFMRRFNELQYVW
 ATELCLCPVPGPRAQLLRKFIKLAHLKEQKNLNSFFAVMFGLSNSAISRLAHTWERL
 PHKVRKLYSALERLLDPSWNHRVYRLALAKLSPPVIPFMPLLLKDMTFIHEGNHTLVE
 NLINFEKMRMMARAARMLHHCRRSHNPVPLSPLRSRVSHLHEDSQVARISTCSEQSL
 STRSPASTWAYVQQLKVIDNQRELSRLSRELEPTRTRPLEQKLISEEDLAANDILDYK
 DDDDKV

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 [RAPGEF3 Rap guanine nucleotide exchange factor 3 \[Homo sapiens \(human\) \]](#)

Official Symbol [RAPGEF3](#)

Synonyms RAPGEF3; Rap guanine nucleotide exchange factor (GEF) 3; RAP guanine nucleotide exchange factor (GEF) 3; rap guanine nucleotide exchange factor 3;

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bcm910; cAMP GEF1; EPAC; exchange protein directly activated by cAMP 1; EPAC 1; 9330170P05Rik; exchange factor directly activated by cAMP 1; cAMP-regulated guanine nucleotide exchange factor I; Rap1 guanine-nucleotide-exchange factor directly activated by cAMP; EPAC1; HSU79275; CAMP-GEFI; MGC21410;

Gene ID 10411

mRNA Refseq NM_001098532

Protein Refseq NP_001092002

MIM 606057

UniProt ID O95398

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