

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | RAPGEF3 MS Standard C13 and N15-labeled recombinant protein (NP_001092002) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 99.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MVLRRMHRPRSCSYQLLLEHQRPSCIQGLRWTPLTNSEESLDFSESLEQASTERVL<br>RAGRQLHRHLLATCPNLIRDRKYHLRLYRQCCSGRELVDGILALGLGVHSRSQVVGI<br>CQVLLDEGALCHVKHDWAFQDRDAQFYRFPGPPEPEPVGTHEMEEELAEAVALLSQ<br>RGPDALLTVALRKPPGQRTDEELDLIFEELLHIKAVAHLSNSVKRELA AVLLEFPHSK<br>AGTVLFSQGDKGTSWYIIWKGSVNVVTHGKGLVTTLHEGDDFGQLALVNDAPRAATI<br>ILREDNCHFLRVDKQDFNRIIKDVEAKTMRLEEKGKVVVLVLERASQGAGPSRPPTPG                                                                                                                                                                                                    |

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RNRYTVMSGTPEKILELLLEAMGPDSSAHDPTETFLSDFLLTHRVMPSAQLCAALL  
 HHFHVEPAGGSEQRSTYVCNKRQQLRLVSQWVALYGSMLHTDPVATSFLQKLSD  
 LVGRDTRLNLLREQWPERRRCHRENGCGNASPQMKARNLPVWLPNQDEPLPG  
 SSCAIQVGDKVPYDICRPDHSVLTQLPVTASVREVMAALAQEDGWTKGQVLVKVN  
 SAGDAIGLQPDARGVATSLGLNERLFVVPNPQEVHELIPHPDQLGPTVGSAEGLDLVS  
 AKDLAQQLTDHDWSLFNSIHQVELIHVYVLPQHLRDVTTANLERFMRRFNELQYVW  
 ATELCLCPVPGPRAQLLRKFIKLAHLKEQKNLNSFFAVMFGLSNSAISRLAHTWERL  
 PHKVRKLYSALERLLDPSWNHRVYRLALAKLSPPVIPFMPLLLKDMTFIHEGNHTLVE  
 NLINFEKMRMMARAARMLHHCRSHNPVPLSPLRSRVSHLHEDSQVARISTCSEQSL  
 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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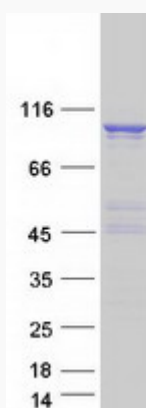
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bcm910; cAMP GEF1; EPAC; exchange protein directly activated by cAMP 1; EPAC 1; 9330170P05Rik; exchange factor directly activated by cAMP 1; cAMP-regulated guanine nucleotide exchange factor I; Rap1 guanine-nucleotide-exchange factor directly activated by cAMP; EPAC1; HSU79275; CAMP-GEFI; MGC21410;

|                       |                              |
|-----------------------|------------------------------|
| <b>Gene ID</b>        | <a href="#">10411</a>        |
| <b>mRNA Refseq</b>    | <a href="#">NM_001098532</a> |
| <b>Protein Refseq</b> | <a href="#">NP_001092002</a> |
| <b>MIM</b>            | <a href="#">606057</a>       |
| <b>UniProt ID</b>     | <a href="#">O95398</a>       |

#### SDS-PAGE



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