

Recombinant Human RAP1GAP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RAP1GAP-3334H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAP1GAP MS Standard C13 and N15-labeled recombinant protein (NP_002876) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a type of GTPase-activating-protein (GAP) that down-regulates the activity of the ras-related RAP1 protein. RAP1 acts as a molecular switch by cycling between an inactive GDP-bound form and an active GTP-bound form. The product of this gene, RAP1GAP, promotes the hydrolysis of bound GTP and hence returns RAP1 to the inactive state whereas other proteins, guanine nucleotide exchange factors (GEFs), act as RAP1 activators by facilitating the conversion of RAP1 from the GDP- to the GTP-bound form. In general, ras subfamily proteins, such as RAP1, play key roles in receptor-linked signaling pathways that control cell growth and differentiation. RAP1 plays a role in diverse processes such as cell proliferation, adhesion, differentiation, and embryogenesis. Alternative splicing results in multiple transcript variants encoding distinct proteins.
Molecular Mass	73.3 kDa
AA Sequence	MIEKMQGSRMDEQRCSFPPPLKTEEDYIPYPSVHEVLGREGPFPLILLPQFGGYWIE GTNHEITSIPETEPLQSPPTTKVKLECNPTARIYRKHFLGKEHFNYYSLDAALGHLVFSL

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KYDVIGDQEHLRLLLRKCRTHDVIPIISCLTEFPNVVQMAKLVCEDEVNDRFYPVLY
 PKASRLIVTFDEHVISNNFKFGVVIYQKLGQTSEEEELFSTNEESPAFVEFLEFLGQKVKL
 QDFKGFRRGLDVTGQTGTESVYCNFRNKEIMFHVSTKLPYTEGDAQQLQRKRHIG
 NDIVAVVFQDENTPLVPDMIASNFLHAYVVVQAEGGGPDGPLYKVSVTARDDVPFF
 GPPLPDPVFRKGPEFQEFLLTKLINA EYACYKA EKFAKLEERTRAALLETLYEELHIH
 SQSMMGLGGDEDKMENGSGGGGFFESFKRVIRSRSQSM DAMGLSNKKPNTVSTS
 HSGSFAPNNPDLAKAAGISLIVPGKSPTRKKSGPFGSRRSSAIGIENIQEVQEKRESP
 PAGQKTPDSGHVSQEPKSENSSTQSSPEMPTTKNRAETAAQRAEALKDFSRSSSS
 ASSFASVVEETEGVDGEDTGLESVSSSGTPHKRDSFIYSTWLED SVSTTSGGSSPG
 PSRSPHPDAGKLGD PACPEIKIQLEAQHMPQLGCTRTRPLEQKLISEEDLAANDIL
 DYKDDDDKV

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 RAP1GAP RAP1 GTPase activating protein [Homo sapiens (human)]

Official Symbol RAP1GAP

Synonyms RAP1GAP; RAP1 GTPase activating protein; RAP1, GTPase activating protein 1, RAP1GA1; rap1 GTPase-activating protein 1; KIAA0474; RAP1GAP1; RAP1GAPII;

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RAPGAP; RAP1GA1;

Gene ID [5909](#)

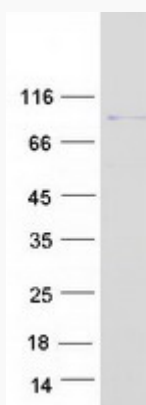
mRNA Refseq [NM_002885](#)

Protein Refseq [NP_002876](#)

MIM [600278](#)

UniProt ID [P47736](#)

SDS-PAGE



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