

Recombinant Human RAP1GAP, His-tagged

Cat. No. RAP1GAP-30503TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-663 of Human RAP1GAP with an N terminal His tag. Predicted mwt: 74 kDa;
Species	Human
Source	E.coli
ProteinLength	1-663 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 70 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80°C.
Sequences of amino acids	MIEKMQGSRMDEQRCSEFPPLKTEEDYIPYPSVHEVLGRE GPFPLILLPQFGGYWIE GTNHEITSIPETEPLQSPPTK VKLECNPTARIYRKHFLGKEHFNYYSLDTALGHLVFS L KYDVIGDQEHLRLLLRTKCRTHYHDVIPISCLTEFPNVV QMAKLVCEDEVNDRFYPV LYPKASRLIVTFDEHVISNNFKFGVIYQKLGQTSEEELFSTNEESPAFVEFLEFLGQKV K LQDFKGFRGGLDVTHGQTGTESVYCNFRNKEIMFHVST KLPYTEGDAQQLQRKR HIGNDIVAVVFQDENTPFVPDM IASNFLHAYVVVQAEGGGPDGPLYKVSVTARDDV PFFG PPLPDPVFRKGPFEQFELLTKLINAHEYACYKA EKFAKLEERTRAALLETLYEE LHIHSQSMMGLGGDEDKMENGSGG GGFESFKRVIRSRSQSM DAMGLSNKKPNT VSTSHSGS FAPNNPD LAKAAGISLIVPGKSPTRKKSGPFGSRRSSA IG IENIQEVQE KRESPPAGQKTPDSGHVSQEPKSENSS TQSSPEMPTTKNRAETAAQRAEALKDFS RSSSSASSFASVVEETEGVDGEDTGLESVSSSGTPHKRDSFIYSTWLEDS VSTTSG GSSPGPSRSPHPDAGKLGD PACPEIKIQLEAS EQHMPQLGC
Full Length	Full L.

GENE INFORMATION

Gene Name	RAP1GAP RAP1 GTPase activating protein [Homo sapiens]
Official Symbol	RAP1GAP
Synonyms	RAP1GAP; RAP1 GTPase activating protein; RAP1, GTPase activating protein 1 , RAP1GA1; rap1 GTPase-activating protein 1; KIAA0474; RAP1GAP1; RAP1GAPII;
Gene ID	5909

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mRNA Refseq	NM_001145657
Protein Refseq	NP_001139129
MIM	600278
Uniprot ID	P47736
Chromosome Location	1p36.1-p35
Pathway	Adaptive Immune System, organism-specific biosystem; IL-5 Signaling Pathway, organism-specific biosystem; Immune System, organism-specific biosystem; Rap1 signalling, organism-specific biosystem;
Function	GTPase activator activity; GTPase activity; Ras GTPase binding; protein binding; protein homodimerization activity;

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