

Product datasheet for **TP308271**

RAP1GAP (NM_002885) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human RAP1 GTPase activating protein (RAP1GAP), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208271 protein sequence Red =Cloning site Green =Tags(s)

MIEKMQGSRMDEQRCSFPPPLKTEEDYIPYPSVHEVLGREGPFPLILLPQFGGYWIEGTNHEITSIPETE
 PLQSPPTTKVKLECNPTARIYRKHFLGKEHFNYYSLDAALGHLVFLSKYDVIGDQEHLRLLLRKCRITYHD
 VIPISCLTEFPNVVQMAKLVCEDVNDRFYPVLYPKASRLVTFDEHVISNNFKGVYIYQKLGQTSEEL
 FSTNEESPAFVEFLEFLGQKVKLQDFKGRGGLDVTHGQTGTESVYCNFRNKEIMFHVSTKLPYTEGDAQ
 QLQRKRHIGNDIVAVVFQDENTPLVPDIASNFLHAYVVVQAEGGGPDGPLYKVSVTARDDVPPFGPPLP
 DPAVFRKGPPEFQEFLLTKLINAAYCYKAEKFAKLEERTRAALETLYEELHIHSQSMGLGGDEDKMEN
 GSGGGGFFESFKRVIRSRSQSMAMGLSNKKPNTVSTSHSGSFAPNNPDLAKAAGISLIVPGKSPTRKKS
 GPFGSRRSSAIGIENIQEVQEKRESPPAGQKTPDSGHVSQEPKSENSSTQSSPEMPTTKNRAETAAQRAE
 ALKDFSRSSSSASSFASVVEETEGVDGEDTGLSVSSSGTPHKRDSFIYSTWLEDSVSTTSGGSSPGPSR
 SPHPDAGKLGDPACPEIKIQLEAQHMPQLGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

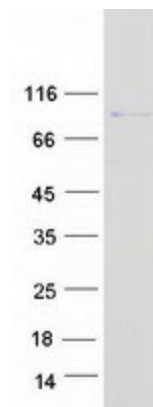
Tag:	C-Myc/DDK
Predicted MW:	73.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002876
Locus ID:	5909
UniProt ID:	P47736 , A0A024RAB5
RefSeq Size:	3334
Cytogenetics:	1p36.12
RefSeq ORF:	1989
Synonyms:	RAP1GA1; RAP1GAP1; RAP1GAPII; RAPGAP
Summary:	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. [provided by RefSeq, Aug 2011]

Product images:



Coomassie blue staining of purified RAP1GAP protein (Cat# TP308271). The protein was produced from HEK293T cells transfected with RAP1GAP cDNA clone (Cat# [RC208271]) using MegaTran 2.0 (Cat# [TT210002]).