

Product datasheet for **TP308271M**

RAP1GAP (NM_002885) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human RAP1 GTPase activating protein (RAP1GAP), transcript variant 3, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC208271 protein sequence Red =Cloning site Green =Tags(s) |

MIEKMQGSRMDEQRCSFPPPLKTEEDYIPYPSVHEVLGREGPFPLILLPQFGGYWIEGTNHEITSIPETE
PLQSPPTTKVKLECNPTARIYRKHFLGKEHFNYYSLDAALGHLVFLSKYDVIGDQEHLRLLLRKCRITYHD
VIPISCLTEFPNVVQMAKLVCEDVNVDRLFYPVLPKASRLVTFDEHVISNNFKGVYIYQKLGQTSEEL
FSTNEESPAFVEFLEFLGQKVKLQDFKGRGGLDVTHGQTGTESVYCNFRNKEIMFHVSTKLPYTEGDAQ
QLQRKRHIGNDIVAVVFQDENTPLVPDIASNFLHAYVVVQAEGGGPDGPLYKVSVTARDDVPPFGPPLP
DPAVFRKGPPEFQEFLLTKLINA EYACYKA EKFAKLEERTRAALETLYEELHIHSQSMGLGGDEDKMN
GSGGGGFFESFKRVIRSRSQSM DAMGLSNKKPNTVSTSHSGSFAPNNPDLAKAAGISLIVPGKSPTRKKS
GPFGRSSAIGIENIQEVQEKRESPPAGQKTPDSGHVSQEPKSENSSTQSSPEMPTTKNRAETAAQRAE
ALKDFSRSSSSASSFASVVEETEGVDGEDTGLSVSSSGTPHKRDSFIYSTWLEDSVSTTSGGSSPGPSR
SPHPDAGKLGDPACPEIKIQLEAQHMPQLGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

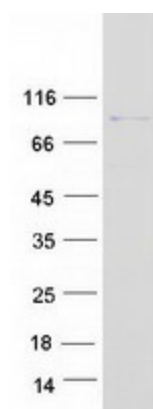
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 73.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | 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]).