

## Product datasheet for TP315248L

### RAP1A (NM\_002884) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human RAP1A, member of RAS oncogene family (RAP1A), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215248 representing NM_002884 <div> <div>Red</div>=Cloning site <div>Green</div>=Tags(s) </div> <p>           MREYKLVLGSGGVGKSALTQFVQGIFVEKYDPTIEDSYRKQVEVDCQQCMLEILDTAGTEQFTAMRDL            YMKNQGQGFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVVGKEQGQNLARQWC            N            CAFLESSAKSKINVNEIFYDLVRQINRKTPVEKKKPKKKSCLLL         </p> <div> <div>TR</div> <div>TRPLEQKLISEEDLAANDILDYKDDDDKV</div> </div>
Tag:	C-Myc/DDK
Predicted MW:	20.8 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.
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:	<u><a href="#">NP_002875</a></u>
Locus ID:	5906


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UniProt ID: [P62834](#)

RefSeq Size: 1812

Cytogenetics: 1p13.2

RefSeq ORF: 552

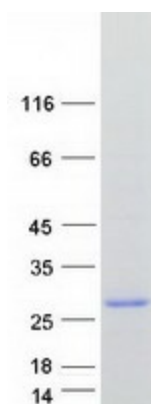
Synonyms: C21KG; G-22K; KREV-1; KREV1; RAP1; SMGP21

**Summary:** This gene encodes a member of the Ras family of small GTPases. The encoded protein undergoes a change in conformational state and activity, depending on whether it is bound to GTP or GDP. This protein is activated by several types of guanine nucleotide exchange factors (GEFs), and inactivated by two groups of GTPase-activating proteins (GAPs). The activation status of the encoded protein is therefore affected by the balance of intracellular levels of GEFs and GAPs. The encoded protein regulates signaling pathways that affect cell proliferation and adhesion, and may play a role in tumor malignancy. Pseudogenes of this gene have been defined on chromosomes 14 and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

**Protein Families:** Druggable Genome

**Protein Pathways:** Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long-term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma

## Product images:



Coomassie blue staining of purified RAP1A protein (Cat# [TP315248]). The protein was produced from HEK293T cells transfected with RAP1A cDNA clone (Cat# [RC215248]) using MegaTran 2.0 (Cat# [TT210002]).