

Product datasheet for PH315248

RAP1A (NM_002884) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RAP1A MS Standard C13 and N15-labeled recombinant protein (NP_002875)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215248
Predicted MW:	20.8 kDa
Protein Sequence:	>RC215248 representing NM_002884 Red=Cloning site Green=Tags(s) MREYKLVVLGSGGVGKSALTVQFVQGFVQKIFVEKYDPTIEDSYRKQVEVDCQCQCMLEILD TAGTEQFTAMRDL YMKNGQGFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVVGKEQGQNLARQWCN CAFLESSAKSKINVNEIFYDLVRQINRKTPEKPKKPKKKSCLLL TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002875
RefSeq Size:	1812
RefSeq ORF:	552
Synonyms:	C21KG; G-22K; KREV-1; KREV1; RAP1; SMGP21
Locus ID:	5906
UniProt ID:	P62834 , A8KAH9



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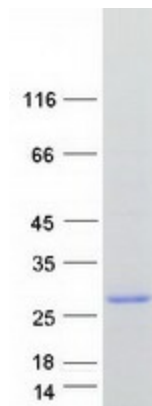
Cytogenetics: 1p13.2

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]).