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Product datasheet for PH307180

RAP2A (NM_021033) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	RAP2A MS Standard C13 and N15-labeled recombinant protein (NP_066361)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207180
Predicted MW:	20.6 kDa
Protein Sequence:	>RC207180 protein sequence Red=Cloning site Green=Tags(s) MREYKVVVLGSGGVGKSALTVQFVTGTFIEKYDPTIEDFYRKEIEVDSSPSVLEILDTAGTEQFASMRDL YIKNGQGFILVYSLVNQQSFQDIKPMRDQIIRVKRYEKVPVILVGNKVDLESEREVSSSEGRALAEEWGC PFMETSAKSKTMVDELFAEIVRQMNYAAQPDKDDPCCSACNIQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_066361
RefSeq Size:	4358
RefSeq ORF:	549
Synonyms:	K-REV; KREV; RAP2; RbBP-30
Locus ID:	5911
UniProt ID:	P10114

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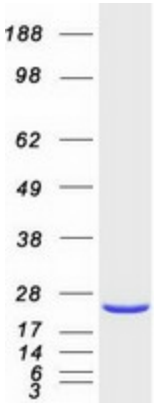
Cytogenetics: 13q32.1

Summary: Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form. In its active form interacts with and regulates several effectors including MAP4K4, MINK1 and TNIK. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it is part of several signaling cascades and may regulate cytoskeletal rearrangements, cell migration, cell adhesion and cell spreading.[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified RAP2A protein (Cat# [TP307180]). The protein was produced from HEK293T cells transfected with RAP2A cDNA clone (Cat# [RC207180]) using MegaTran 2.0 (Cat# [TT210002]).