

Product datasheet for PH301103

ARPC1B (NM_005720) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ARPC1B MS Standard C13 and N15-labeled recombinant protein (NP_005711)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201103
Predicted MW:	40.9 kDa
Protein Sequence:	>RC201103 protein sequence Red=Cloning site Green=Tags(s)

MAYHSFLVEPISCHAWNKDRTQIAICPNNHEVHIYEKSGAKWTKVHELKEHNGQVTGIDWAPESNRIVTC
GTDNRNAYVWTLKGRWTKPTLVILRINRAARCVRWAPNENKFAVGSGSRVLSICYFEQENDWWVCKHIKPK
IRSTVLSLDWHPNPNVLLAAGSCDFKCRIF SAYIKEVEERPAPTPWGSKMPFGELMFESSSCGWVHGVCF
SASGSRVAWVSHDSTVCLADADKKMAVATLASETLPLLALTFITDNSLVAAGHDCFPVLFYDAAAGMLS
FGGRLDVPKQSSQRGLTARERFQNLDKKASSEGGTAAGAGLDSLHKNSVSQISVLSGGKAKCSQFCTTGM
DGGMSIWDVKSLESALKDLKIK

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:	<u>NP_005711</u>
RefSeq Size:	1551
RefSeq ORF:	1116
Synonyms:	ARC41; IMD71; p40-ARC; p41-ARC; PLTEID
Locus ID:	10095



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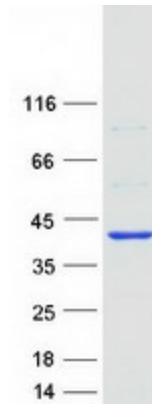
UniProt ID: [O15143](#), [A4D275](#)

Cytogenetics: 7q22.1

Summary: This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1A. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages. This protein also has a role in centrosomal homeostasis by being an activator and substrate of the Aurora A kinase. [provided by RefSeq, Mar 2011]

Protein Pathways: Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified ARPC1B protein (Cat# [TP301103]). The protein was produced from HEK293T cells transfected with ARPC1B cDNA clone (Cat# [RC201103]) using MegaTran 2.0 (Cat# [TT210002]).