OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH302370

SKA1 (NM_145060) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SKA1 MS Standard C13 and N15-labeled recombinant protein (NP_659497)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202370
Predicted MW:	29.5 kDa
Protein Sequence:	>RC202370 protein sequence Red=Cloning site Green=Tags(s) MASSDLEQLCSHVNEKIGNIKKTLSLRNCGQEPTLKTVLNKIGDEIIVINELLNKLELEIQYQEQTNNSL KELCESLEEDYKDIEHLKENVPSHLPQVTVTQSCVKGSDLDPEEPIKVEEPEPVKKPPKEQRSIKEMPFI TCDEFNGVPSYMKSRLTYNQINDVIKEINKAVISKYKILHQPKKSMNSVTRNLYHRFIDEETKDTKGRYF IVEADIKEFTTLKADKKFHVLLNILRHCRRLSEVRGGGLTRYVIT 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_659497
RefSeq Size:	2893
RefSeq ORF:	765
Synonyms:	C18orf24
Locus ID:	220134
UniProt ID:	Q96BD8, A0A024R294

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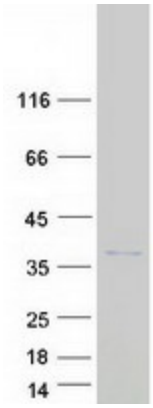
Cytogenetics: 18q21.1

Summary: Component of the SKA1 complex, a microtubule-binding subcomplex of the outer kinetochore that is essential for proper chromosome segregation (PubMed:17093495, PubMed:19289083, PubMed:23085020). Required for timely anaphase onset during mitosis, when chromosomes undergo bipolar attachment on spindle microtubules leading to silencing of the spindle checkpoint (PubMed:17093495). The SKA1 complex is a direct component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies (PubMed:19289083). The complex facilitates the processive movement of microspheres along a microtubule in a depolymerization-coupled manner (PubMed:19289083). Affinity for microtubules is synergistically enhanced in the presence of the ndc-80 complex and may allow the ndc-80 complex to track depolymerizing microtubules (PubMed:23085020). In the complex, it mediates the interaction with microtubules (PubMed:19289083, PubMed:23085020).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified SKA1 protein (Cat# [TP302370]). The protein was produced from HEK293T cells transfected with SKA1 cDNA clone (Cat# [RC202370]) using MegaTran 2.0 (Cat# [TT210002]).