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Product datasheet for PH319046

C11orf85 (MAJIN) (NM_001037225) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	C11orf85 MS Standard C13 and N15-labeled recombinant protein (NP_001032302)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219046
Predicted MW:	24.8 kDa
Protein Sequence:	>RC219046 protein sequence Red=Cloning site Green=Tags(s) MSLKPFTYPFPETRFLHAGPNVYKFKIRYGKSIRGEEIENKEVITQELEDSVRVVLGNLDNLQPFATEHF IVFPYKSKWERVSHLKFKHGEIILIPYPFVFTLYVEMKWFHENLSPGKPISDSPLGLVPVEKKAVGAVMR KRKHMDEPSSPSRPGLDRIGKEKPNKDCRRLWPLISLMSRNKILSGDTACQGELSHPCSTTHLHLRSEQP PASLGF 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_001032302
RefSeq Size:	1291
RefSeq ORF:	648
Synonyms:	C11orf85
Locus ID:	283129
UniProt ID:	Q3KP22

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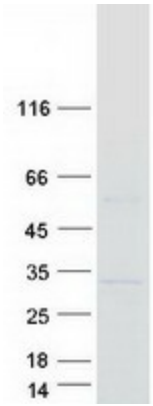
Cytogenetics: 11q13.1

Summary: Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis. Component of the MAJIN-TERB1-TERB2 complex, which promotes telomere cap exchange by mediating attachment of telomeric DNA to the inner nuclear membrane and replacement of the protective cap of telomeric chromosomes: in early meiosis, the MAJIN-TERB1-TERB2 complex associates with telomeric DNA and the shelterin/telosome complex. During prophase, the complex matures and promotes release of the shelterin/telosome complex from telomeric DNA. In the complex, MAJIN acts as the anchoring subunit to the nucleus inner membrane. MAJIN shows DNA-binding activity, possibly for the stabilization of telomere attachment on the nucleus inner membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified MAJIN protein (Cat# [TP319046]). The protein was produced from HEK293T cells transfected with MAJIN cDNA clone (Cat# [RC219046]) using MegaTran 2.0 (Cat# [TT210002]).