

Product datasheet for PH307294

MRCL3 (MYL12A) (NM_006471) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MYL12A MS Standard C13 and N15-labeled recombinant protein (NP_006462)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207294
Predicted MW:	19.8 kDa
Protein Sequence:	>RC207294 protein sequence Red =Cloning site Green =Tags(s) MSSKRTKTKTKRQRATSNVAFMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGNPTDEYLD AMMNEAPGPINFMTFLTMFGEKLNQDPEVIRNAFACFDEEATGTIQEDYLRELLTTMGDRFTDEEVDE LYREAPIDKKGNFNYIEFTRILKHGAKDKDD TR TRPLEQKLISEEDLAANDILDYKDDDDKV
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_006462
RefSeq Size:	1243
RefSeq ORF:	513
Synonyms:	HEL-S-24; MLC-2B; MLCB; MRCL3; MRLC3; MYL2B
Locus ID:	10627
UniProt ID:	P19105



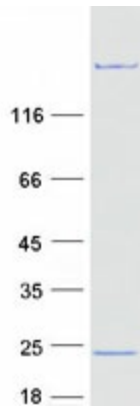
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Cytogenetics: 18p11.31

Summary: This gene encodes a nonsarcomeric myosin regulatory light chain. This protein is activated by phosphorylation and regulates smooth muscle and non-muscle cell contraction. This protein may also be involved in DNA damage repair by sequestering the transcriptional regulator apoptosis-antagonizing transcription factor (AATF)/Che-1 which functions as a repressor of p53-driven apoptosis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 8.[provided by RefSeq, Dec 2014]

Protein Pathways: Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction

Product images:



Coomassie blue staining of purified MYL12A protein (Cat# [TP307294]). The protein was produced from HEK293T cells transfected with MYL12A cDNA clone (Cat# [RC207294]) using MegaTran 2.0 (Cat# [TT210002]).