

Product datasheet for PH305932

Myosin Light Chain 2 (MYL2) (NM_000432) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	MYL2 MS Standard C13 and N15-labeled recombinant protein (NP_000423)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205932
Predicted MW:	18.8 kDa
Protein Sequence:	>RC205932 protein sequence Red=Cloning site Green=Tags(s) MAPKKAKKRAGGANSNVFSMFEQTQIQEFKEAFTIMDQNRDGFIDKNDLRDTFAALGRVNVKNEEIDEMI KEAPGPINFTVFLTMFGEKLGADPEETILNAFKVFDPEGKGVLKADYVREMLTTQAERFSKEEVDQMFA AFPPDVTGNLDYKNLVHIITHGEEKD 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- 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:	NP_000423
RefSeq Size:	855
RefSeq ORF:	498
Synonyms:	CMH10; MLC-2s/v; MLC2
Locus ID:	4633
UniProt ID:	P10916 , Q6IB42



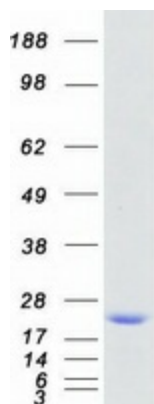
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Cytogenetics: 12q24.11

Summary: This gene encodes the regulatory light chain associated with cardiac myosin beta (or slow) heavy chain. Ca⁺ triggers the phosphorylation of regulatory light chain that in turn triggers contraction. Mutations in this gene are associated with mid-left ventricular chamber type hypertrophic cardiomyopathy. [provided by RefSeq, Jul 2008]

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Leukocyte transendothelial migration, Regulation of actin cytoskeleton, Tight junction

Product images:



Coomassie blue staining of purified MYL2 protein (Cat# [TP305932]). The protein was produced from HEK293T cells transfected with MYL2 cDNA clone (Cat# [RC205932]) using MegaTran 2.0 (Cat# [TT210002]).