

## Recombinant Human MYL6B, His-tagged

Cat. No. MYL6B-3623H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human MYL6B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-208 aa).
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	MYL6B is a heavy chain regulator found in smooth muscle and non-muscle Myosin complexes. Contractile activity in smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of Myosin light chain by Myosin light chain kinase. MYL6B does not bind calcium during contraction. It is primarily found in a hexamer consisting of four light chains and two heavy chains. It most commonly interacts with Myosin Va, an Actin based motor that can move in large steps. MYL6B is expressed in most tissues with neurons and smooth muscle tissue having the highest expression.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT
<b>Molecular Weight</b>	25.2 kDa (231aa), confirmed by MALDI-TOF
<b>Purity</b>	> 95 % by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay )
<b>Sequences of amino</b>	MGSSHHHHHH SSSLVPRGSH MGSMPPKKDV PVKKPAGPSI SKPAAKPAAA

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**acids**

GAPPAKTKAE PAVPQAPQKT QEPPVDLSKV VIEFNKDQLE EFKEAFELFD  
 RVGDGKILYS QCGDVMRALG QNPTNAEVLK VLGNPKSDEL KSRRVDFETF  
 LPMLQAVAKN RGQGTIEDYL EGFRVFDKEG NGKVMGAELR HVLTTLGEKM  
 TEEEVETVLA GHEDSNGCIN YEAFLEKILS V

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Muscle contraction; Smooth Muscle Contraction; Vascular smooth muscle contraction

## GENE INFORMATION

**Gene Name**

MYL6B myosin, light chain 6B, alkali, smooth muscle and non-muscle [ Homo sapiens ]

**Official Symbol**

MYL6B

**Synonyms**

MYL6B; MLC1SA; MLC1sa; myosin, light chain 6B, alkali, smooth muscle and non-muscle; myosin light chain 6B; myosin light chain 1 slow a; myosin alkali light chain 1 slow a; myosin light chain 1 slow-twitch muscle A isoform; myosin light chain 1, slow-twitch muscle A isoform; smooth muscle and nonmuscle myosin light chain alkali 6B; smooth muscle and non-muscle myosin alkali light chain 6B; myosin, light polypeptide 6B, alkali, smooth muscle and non-muscle

**Gene ID**

140465

**mRNA Refseq**

NM\_001199629

**Protein Refseq**

NP\_001186558

**MIM**

609930

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<b>UniProt ID</b>	P14649
<b>Chromosome Location</b>	12q13.13
<b>Function</b>	calcium ion binding; motor activity; protein binding; structural constituent of muscle

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