

Recombinant Human MYL6 protein, His-tagged

Cat. No. MYL6-3446H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYL6(1-151aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-151 a.a.
Description	Myosin light polypeptide 6 is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain that is expressed in smooth muscle and non-muscle tissues. MYL6 participates in generating the force for cellular movements, thereby playing an important role in overall cellular function.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Molecular Mass	19.1 kDa (171aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSHLPMLQTVAKN KDQGTIEDYV EGLRVFDKEG NGTVMGAEIR HVLVTLGEKM TEEVEMLVA GHEDSNGCIN YEELVRMVLN G MCDFTEDQTA EFKEAFQLFD RTGDGKILYS QCGDVMRALG QNPTNAEVLK VLGNPKSDEM NVKVLDFEHF

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	MYL6 myosin, light chain 6, alkali, smooth muscle and non-muscle [Homo sapiens]
Official Symbol	MYL6
Synonyms	MYL6; myosin, light chain 6, alkali, smooth muscle and non-muscle; myosin, light polypeptide 6, alkali, smooth muscle and non muscle; myosin light polypeptide 6; ESMLC; MLC1SM; MLC3NM; myosin light chain A3; 17 kDa myosin light chain; myosin light chain alkali 3; myosin, light polypeptide 6, alkali, smooth muscle and non-muscle; LC17; LC17A; LC17B; MLC-3; MLC3SM; LC17-GI; LC17-NM;
Gene ID	4637
mRNA Refseq	NM_079423
Protein Refseq	NP_524147
MIM	609931
UniProt ID	P60660
Chromosome	12q13.13

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Location	
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Muscle contraction, organism-specific biosystem; Sema4D in semaphorin signaling, organism-specific biosystem; Sema4D induced cell migration and growth-cone collapse, organism-specific biosystem; Semaphorin interactions, organism-specific biosystem;
Function	actin-dependent ATPase activity; calcium ion binding; motor activity; protein binding; structural constituent of muscle;

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