# NKMAXBIO We support you, we believe in your research

# Recombinant human MYL12B protein

Catalog Number: ATGP1577

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-172aa

#### **UniProt No.**

014950

#### **NCBI Accession No.**

NP 001138417

#### **Alternative Names**

Myosin light chain 12B regulatory, Myosin, light chain 12B regulatory, MLC-B, MRLC2

# PRODUCT SPECIFICATION

### **Molecular Weight**

22.3 kDa (196aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Myosin, light chain 12B, regulatory, also known as MYL12B, is a hexameric ATPase cellular motor protein. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. MYL12B regulates contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light chain kinase (MLCK). Phosphorylation of myosin regulatory light chains, catalyzed by MLCK in the presence of calcium and calmodulin, increases Actin-activated myosin ATPase activity, thereby regulating contractile activity. Recombinant human MYL12B protein, fused to His-tag at N-terminus, was



# NKMAXBio We support you, we believe in your research

# Recombinant human MYL12B protein

Catalog Number: ATGP1577

expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

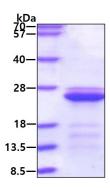
<MGSSHHHHHH SSGLVPRGSH MGSH>MSSKKA KTKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DAYLDAMMNE APGPINFTMF LTMFGEKLNG TDPEDVIRNA FACFDEEATG TIQEDYLREL LTTMGDRFTD EEVDELYREA PIDKKGNFNY IEFTRILKHG AKDKDD

#### **General References**

Kumar C C., et al. (1989) Biochemistry. 28:4027-4035. Kolodney M S., et al. (1999) J Physiol. 515: 87-92.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

