

Recombinant Human MYL1 293 Cell Lysate

Cat. No. MYL1-4031HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for myosin, light chain 1, alkali; skeletal, fast (MYL1), transcript variant 3f is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

MYL1 myosin, light chain 1, alkali; skeletal, fast [Homo sapiens]

Official Symbol

MYL1

Synonyms

MYL1; myosin, light chain 1, alkali; skeletal, fast; myosin, light polypeptide 1, alkali; skeletal, fast; myosin light chain 1/3, skeletal muscle isoform; MLC1/MLC3; MLC1F/MLC3F; A1 catalytic; A2 catalytic; myosin light chain A1/A2; myosin light chain alkali 1/2; myosin, light polypeptide 1, alkali; skeletal, fast; MLC1F; MLC3F;

Gene ID

4632

mRNA Refseq

NM_079420

Protein Refseq

NP_524144

MIM

160780

UniProt ID

P05976

Chromosome Location

2q33-q34

Pathway

G13 Signaling Pathway, organism-specific biosystem; Muscle contraction, organism-specific biosystem; Regulation of Actin Cytoskeleton, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle

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Contraction, organism-specific biosystem;

Function

calcium ion binding; structural constituent of muscle;

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