

Recombinant Human MYL1 293 Cell Lysate

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

SPECIFICATION

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.
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

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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 Contraction, organism-specific biosystem;

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Function

calcium ion binding; structural constituent of muscle;

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