Recombinant Human MYLPF 293 Cell Lysate

Cat. No. MYLPF-4013HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for myosin light chain, phosphorylatable, fast skeletal muscle (MYLPF) 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	MYLPF myosin light chain, phosphorylatable, fast skeletal muscle [Homo sapiens]
Official Symbol	MYLPF
Synonyms	MYLPF; myosin light chain, phosphorylatable, fast skeletal muscle; myosin regulatory light chain 2, skeletal muscle isoform; HUMMLC2B; MRLC2; MYL11; myosin regulatory light chain 2; myosin; light chain 11; regulatory; MLC2B; myosin light chain 2; fast skeletal myosin light chain 2; myosin, light chain 11, regulatory; MGC13450; DKFZp779C0757;
Gene ID	29895
mRNA Refseq	NM_013292
Protein Refseq	NP_037424
UniProt ID	Q96A32
Chromosome Location	16p11.2
Pathway	ErbB1 downstream signaling, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte transendothelial migration, conserved biosystem; Regulation of actin cytoskeleton, organism-specific

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	biosystem; Regulation of actin cytoskeleton, conserved biosystem;
Function	calcium ion binding; structural constituent of muscle;

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