

Recombinant Human MYL2 293 Cell Lysate

Cat. No. MYL2-4028HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for myosin, light chain 2, regulatory, cardiac, slow (MYL2) 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	MYL2 myosin, light chain 2, regulatory, cardiac, slow [Homo sapiens]
Official Symbol	MYL2
Synonyms	MYL2; myosin, light chain 2, regulatory, cardiac, slow; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; cardiac ventricular myosin light chain 2; CMH10; MLC-2; MLC-2v; RLC of myosin; myosin light chain 2; regulatory light chain of myosin; slow cardiac myosin regulatory light chain 2; MLC2; DKFZp779C0562;
Gene ID	4633
mRNA Refseq	NM_000432
Protein Refseq	NP_000423
MIM	160781
UniProt ID	P10916
Chromosome Location	12q24.11
Pathway	CDC42 signaling events, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion,

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conserved biosystem;

Function

actin monomer binding; calcium ion binding; myosin heavy chain binding; protein binding; structural constituent of muscle;

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