Recombinant Human MYL2 293 Cell Lysate

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

SPECIFICATION

Product Overview	
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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	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;

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	Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;
Function	actin monomer binding; calcium ion binding; myosin heavy chain binding; protein binding; structural constituent of muscle;

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