

Recombinant Human MYL4 293 Cell Lysate

Cat. No. MYL4-4026HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for myosin, light chain 4, alkali; atrial, embryonic (MYL4), transcript variant 2 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

MYL4 myosin, light chain 4, alkali; atrial, embryonic [Homo sapiens]

Official Symbol

MYL4

Synonyms

MYL4; myosin, light chain 4, alkali; atrial, embryonic; myosin, light polypeptide 4, alkali; atrial, embryonic; myosin light chain 4; ALC1; AMLC; GT1; myosin; atrial/fetal muscle; light chain; PRO1957; myosin light chain alkali GT-1 isoform; myosin, atrial/fetal muscle, light chain; myosin light chain 1, embryonic muscle/atrial isoform; myosin, light polypeptide 4, alkali; atrial, embryonic;

Gene ID

4635

mRNA Refseq

NM_001002841

Protein Refseq

NP_001002841

MIM

160770

UniProt ID

P12829

Chromosome Location

17q21-qter

Pathway

Muscle contraction, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Striated Muscle Contraction,

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organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;

Function

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

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