

Recombinant Human MYOD1 293 Cell Lysate

Cat. No. MYOD1-4005HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for myogenic differentiation 1 (MYOD1) 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

MYOD1 myogenic differentiation 1 [Homo sapiens]

Official Symbol

MYOD1

Synonyms

MYOD1; myogenic differentiation 1; MYF3, myogenic factor 3; myoblast determination protein 1; bHLHc1; MYOD; PUM; myf-3; myogenic factor 3; class C basic helix-loop-helix protein 1; MYF3;

Gene ID

4654

mRNA Refseq

NM_002478

Protein Refseq

NP_002469

MIM

159970

UniProt ID

P15172

**Chromosome
Location**

11p15

Pathway

C-MYB transcription factor network, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Myogenesis, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific

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biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific biosystem;

Function

DNA binding; E-box binding; enzyme binding; protein binding; protein heterodimerization activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription coactivator activity; transcription factor binding; ubiquitin protein ligase binding;

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