Recombinant Human MYOG 293 Cell Lysate

Cat. No. MYOG-4004HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for myogenin (myogenic factor 4) (MYOG) 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	MYOG myogenin (myogenic factor 4) [Homo sapiens]
Official Symbol	MYOG
Synonyms	MYOG; myogenin (myogenic factor 4); MYF4; myogenin; bHLHc3; myf-4; myogenic factor 4; Myogenic factor-4; class C basic helix-loop-helix protein 3; MYOGENIN;
Gene ID	4656
mRNA Refseq	NM_002479
Protein Refseq	NP_002470
MIM	159980
UniProt ID	P15173
Chromosome Location	1q31-q41
Pathway	CDO in myogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Hypertrophy Model, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Myogenesis, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem;

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Function	DNA binding; E-box binding; core promoter proximal region sequence-specific DNA binding; protein heterodimerization activity; sequence-specific DNA binding transcription factor activity;

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