Recombinant Human MITF 293 Cell Lysate

Cat. No. MITF-4306HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for microphthalmia-associated transcription factor (MITF), transcript variant 5 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	MITF microphthalmia-associated transcription factor [Homo sapiens]
Official Symbol	MITF
Synonyms	MITF; microphthalmia-associated transcription factor; Waardenburg syndrome, type 2A , WS2, WS2A; bHLHe32; homolog of mouse microphthalmia; MI; class E basic helix-loop-helix protein 32; WS2; WS2A;
Gene ID	4286
mRNA Refseq	NM_000248
Protein Refseq	NP_000239
MIM	156845
UniProt ID	O75030
Chromosome Location	3p14.1-p12.3
Pathway	IL6-mediated signaling events, organism-specific biosystem; Kit Receptor Signaling Pathway, organism-specific biosystem; Melanogenesis, organism-specific biosystem; Melanogenesis, conserved biosystem; Melanoma, organism-specific biosystem; Melanoma, conserved biosystem; Osteoclast differentiation, organism-specific biosystem;

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Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; protein binding;

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