

Recombinant Human BHLHE40 293 Cell Lysate

Cat. No. BHLHE40-8459HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for basic helix-loop-helix family, member e40 (BHLHE40) 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 [BHLHE40 basic helix-loop-helix family, member e40 \[Homo sapiens \]](#)

Official Symbol BHLHE40

Synonyms BHLHE40; basic helix-loop-helix family, member e40; basic helix loop helix domain containing, class B, 2 , BHLHB2, STRA13; class E basic helix-loop-helix protein 40; differentiated embryo chondrocyte expressed gene 1; bHLHe40; DEC1; differentially expressed in chondrocytes 1; class B basic helix-loop-helix protein 2; stimulated by retinoic acid gene 13 protein; enhancer-of-split and hairy-related protein 2; differentially expressed in chondrocytes protein 1; basic helix-loop-helix domain containing, class B, 2; HLHB2; BHLHB2; STRA13; Stra14; SHARP-2; FLJ99214;

Gene ID [8553](#)

mRNA Refseq [NM_003670](#)

Protein Refseq [NP_003661](#)

MIM [604256](#)

UniProt ID [O14503](#)

Chromosome Location 3p26

Pathway BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian rhythm - mammal, organism-

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specific biosystem; Circadian rhythm - mammal, conserved biosystem; Circadian rhythm pathway, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; HIF-2-alpha transcription factor network, organism-specific biosystem;

Function

DNA binding; E-box binding; MRF binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; RNA polymerase II transcription factor binding transcription factor activity involved in negative regulation of transcription; bHLH transcription factor binding; protein binding; protein domain specific binding; protein heterodimerization activity; protein homodimerization activity; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity;

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