Recombinant Human HEY2 293 Cell Lysate

Cat. No. HEY2-5574HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for hairy/enhancer-of-split related with YRPW motif 2 (HEY2) 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	HEY2 hairy/enhancer-of-split related with YRPW motif 2 [Homo sapiens]
Official Symbol	HEY2
Synonyms	HEY2; hairy/enhancer-of-split related with YRPW motif 2; hairy/enhancer-of-split related with YRPW motif protein 2; bHLHb32; HERP1; HRT-2; hCHF1; hHRT2; HESR-2; protein gridlock homolog; HES-related repressor protein 1; HES-related repressor protein 2; hairy-related transcription factor 2; cardiovascular helix-loop-helix factor 1; class B basic helix-loop-helix protein 32; hairy and enhancer of split-related protein 2; cardiovascular basic helix-loop-helix factor 1; GRL; CHF1; HRT2; HESR2; GRIDLOCK; MGC10720;
Gene ID	23493
mRNA Refseq	NM_012259
Protein Refseq	NP_036391
MIM	604674
UniProt ID	Q9UBP5
Chromosome Location	6q

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Pathway	Delta-Notch Signaling Pathway, organism-specific biosystem; Heart Development, organism-specific biosystem; NOTCH1 Intracellular Domain Regulates Transcription, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem; Signaling by NOTCH1, organism-specific biosystem;
Function	DNA binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity; RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity; histone deacetylase binding; microsatellite binding; microsatellite binding; protein binding; protein binding transcription factor activity; protein binding transcription factor activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription factor binding;

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