Recombinant Human HNF4A 293 Cell Lysate

Cat. No. HNF4A-5457HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for hepatocyte nuclear factor 4, alpha (HNF4A), transcript variant 1 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	HNF4A hepatocyte nuclear factor 4, alpha [Homo sapiens]
Official Symbol	HNF4A
Synonyms	HNF4A; hepatocyte nuclear factor 4, alpha; MODY, MODY1, TCF14; hepatocyte nuclear factor 4-alpha; HNF4; NR2A1; TCF-14; HNF-4-alpha; HNF4alpha10/11/12; transcription factor 14; transcription factor-14; transcription factor HNF-4; hepatic nuclear factor 4 alpha; nuclear receptor subfamily 2 group A member 1; TCF; MODY; MODY1; TCF14; HNF4a7; HNF4a8; HNF4a9; NR2A21; HNF4alpha; FLJ39654;
Gene ID	3172
mRNA Refseq	NM_178849
Protein Refseq	NP_849180
MIM	600281
UniProt ID	P41235
Chromosome Location	20q13.12
Pathway	Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Gene Expression,

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	organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem;
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; activating transcription factor binding; fatty acid binding; fatty-acyl-CoA binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; palmitoyl-CoA hydrolase activity; protein binding; protein homodimerization activity; receptor activity; receptor binding; repressing transcription factor binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; steroid hormone receptor activity; transcription regulatory region DNA binding; zinc ion binding;

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