

Recombinant Human HNF1A 293 Cell Lysate

Cat. No. HNF1A-5461HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for HNF1 homeobox A (HNF1A) 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

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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	HNF1A HNF1 homeobox A [Homo sapiens]
Official Symbol	HNF1A
Synonyms	HNF1A; HNF1 homeobox A; MODY3, TCF1, transcription factor 1, hepatic; LF B1, hepatic nuclear factor (HNF1), albumin proximal factor; hepatocyte nuclear factor 1-alpha; HNF1; LFB1; HNF-1-alpha; albumin proximal factor; hepatic nuclear factor 1; transcription factor 1, hepatic; interferon production regulator factor; liver-specific transcription factor LF-B1; TCF1; MODY3; TCF-1; HNF-1A; IDDM20;
Gene ID	6927
mRNA Refseq	NM_000545
Protein Refseq	NP_000536
MIM	142410
UniProt ID	P20823
Chromosome Location	12q24.31
Pathway	Adipogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; IL-6 Signaling Pathway, organism-specific biosystem; Maturity

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onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Presenilin action in Notch and Wnt signaling, organism-specific biosystem;

Function

DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; double-stranded DNA binding; protein binding; protein dimerization activity; protein heterodimerization activity; protein heterodimerization activity; protein homodimerization activity; protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;

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