

## Recombinant Human PDX1 293 Cell Lysate

Cat. No. PDX1-3318HCL Lot. No. (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>       | 1-283 aa                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>         | Antigen standard for pancreatic and duodenal homeobox 1 (PDX1) 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.                                                                                                          |
| <b>Components</b>          | 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). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | 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**

[PDX1 pancreatic and duodenal homeobox 1 \[ Homo sapiens \]](#)

**Official Symbol**

PDX1

**Synonyms**

PDX1; pancreatic and duodenal homeobox 1; insulin promoter factor 1, homeodomain transcription factor , IPF1; pancreas/duodenum homeobox protein 1; IDX 1; MODY4; PDX 1; somatostatin transcription factor 1; STF 1; IPF-1; IUF-1; glucose-sensitive factor; insulin upstream factor 1; islet/duodenum homeobox-1; pancreatic-duodenal homeobox factor 1; somatostatin-transactivating factor 1; insulin promoter factor 1, homeodomain transcription factor; GSF; IPF1; IUF1; IDX-1; PDX-1; STF-1;

**Gene ID**

[3651](#)

**mRNA Refseq**

[NM\\_000209](#)

**Protein Refseq**

[NP\\_000200](#)

**MIM**

[600733](#)

**UniProt ID**

[P52945](#)

**Chromosome Location**

13q12.1

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**Pathway**

Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem; Regulation of gene expression in beta cells, organism-specific biosystem; Regulation of gene expression in early pancreatic precursor cells, organism-specific biosystem;

**Function**

chromatin binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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