

## Human PDX1 Knockdown Cell Lysate

Cat. No. PDX1-266HKCL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	WB-validated PDX1 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>The protein encoded by this gene is a transcriptional activator of several genes, including insulin, somatostatin, glucokinase, islet amyloid polypeptide, and glucose transporter type 2. The encoded nuclear protein is involved in the early development of the pancreas and plays a major role in glucose-dependent regulation of insulin gene expression. Defects in this gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetes mellitus (IDDM), as well as maturity onset diabetes of the young type 4 (MODY4).</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	31 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>
<b>Storage</b>	Store at -20 centigrade for two years.

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<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PDX1 KD HeLa cell lysate
<b>Protein Families</b>	Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
<b>Protein Pathways</b>	Maturity onset diabetes of the young, Type II diabetes mellitus
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	PDX1 pancreatic and duodenal homeobox 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PDX1
<b>Synonyms</b>	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;
<b>Gene ID</b>	3651
<b>mRNA Refseq</b>	NM_000209

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**Protein Refseq**      [NP\\_000200](#)

**MIM**                      [600733](#)

**UniProt ID**              [P52945](#)

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