

Human PDX1 Knockdown Cell Lysate

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

SPECIFICATION

Product Overview	WB-validated PDX1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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).
Form	Cell-Tissue Lysis buffer
Molecular Mass	31 kDa
Notes	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.
Storage	Store at -20 centigrade for two years.

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

GENE INFORMATION

Gene Name	PDX1 pancreatic and duodenal homeobox 1 [Homo sapiens (human)]
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

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Protein Refseq	NP_000200
MIM	600733
UniProt ID	P52945

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