

Recombinant Human PDX1

Cat. No. PDX1-29672TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of Human PDX1 with proprietary tag; predicted MW 58.13 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	1-283 aa
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 (NIDDM), as well as maturity onset diabetes of the young type 4 (MODY4).
Molecular Weight	58.130kDa inclusive of tags
Tissue specificity	Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells).
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGR QPPPPPPHPFPGAL GALEQGSPDISPYEVPPLADDPAVA HLHHHLPAQLALPHPPAGPFPEGAEPGVLE EPNRVQLPFP WMKSTKAHAWKGQWAGGAYAAEPEENKRTRTAYTRAQLLE LEKE FLFNKYISRPRRVELAVMLNLTERHIKIWFQNRRMK WKKEEDKKRGGGTAVGGGG VAEPEQDCAVTSGEELLALPP PPPPGGAVPPAAPVAAREGRLPPGLSASPQPSSV APRRPQ EPR
Sequence Similarities	Belongs to the Antp homeobox family. IPF1/XIHbox-8 subfamily.Contains 1 homeobox DNA-binding domain.

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;
Gene ID	3651
mRNA Refseq	NM_000209
Protein Refseq	NP_000200

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MIM	600733
Uniprot ID	P52945
Chromosome Location	13q12.1
Pathway	Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Insulin Synthesis and Processing, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem;
Function	chromatin binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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