PDX-1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	PDX-1, Polyclonal Antibody
Full Product Name	PDX-1 Polyclonal Antibody
Product Gene Name	anti-PDX-1 antibody
Clonality	Polyclonal
Molecular Weight	30,771 Da
OMIM	125853
3D Structure	ModBase 3D Structure for P52945
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-PDX-1 antibody	MBS8524630 is an antibody targeting PDX-1. Also known as PDX-1 Polyclonal Antibody.
Other Notes	Small volumes of anti-PDX-1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDX-1. It may not necessarily be applicable to this product.

NCBI GI #	4557673
NCBI GeneID	3651
NCBI Accession #	NP_000200.1
UniProt Primary Accession #	P52945
UniProt Secondary Accession #	O60594; Q5VYW2
UniProt Related Accession #	P52945
GenBank Nucleotide #	NM_000209.3
NCBI Official Full Name	pancreas/duodenum homeobox protein 1
NCBI Official Synonym Full Names	pancreatic and duodenal homeobox 1
NCBI Official Symbol	PDX1
NCBI Official Synonym Symbols	GSF; IPF1; IUF1; IDX-1; MODY4; PDX-1; STF-1; PAGEN1
UniProt Protein Name	Pancreas/duodenum homeobox protein 1
UniProt Synonym Protein Names	Glucose-sensitive factor; GSF; Insulin promoter factor 1; IPF-1; Insulin upstream factor 1; IUF-1; Islet/duodenum homeobox-1; IDX-1; Somatostatin-transactivating factor 1; STF-1
Protein Family	Probable pyridoxal 5'-phosphate synthase
UniProt Gene Name	PDX1
UniProt Synonym Gene Names	IPF1; STF1; PDX-1; GSF; IPF-1; IUF-1; IDX-1; STF-1
NCBI Protein Information	pancreas/duodenum homeobox protein 1

NCBI Summary for PDX-1	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). [provided by RefSeq, Aug 2017]
UniProt Comments for PDX-1	Activates insulin, somatostatin, glucokinase, islet amyloid polypeptide and glucose transporter type 2 gene transcription. Particularly involved in glucose-dependent regulation of insulin gene transcription. As part of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells is involved in the transcriptional activation of the ELA1 enhancer; the complex binds to the enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer A element. Binds preferentially the DNA motif 5'-[CT]TAAT[TG]-3'. During development, specifies the early pancreatic epithelium, permitting its proliferation, branching and subsequent differentiation. At adult stage, required for maintaining the hormone-producing phenotype of the beta-cell.
Research Articles on PDX-1	**1.** study provides a novel culture protocol for generating pancreas-committed cells from hAECs and reveals an interplay between Pdx1 and activin A/nicotinamide signaling in early pancreatic fate determination.
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