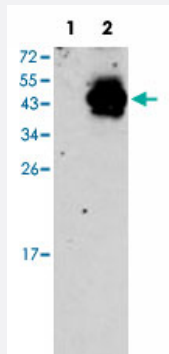


PDX1 polyclonal antibody

Catalog # PAB2101 Size 400 uL

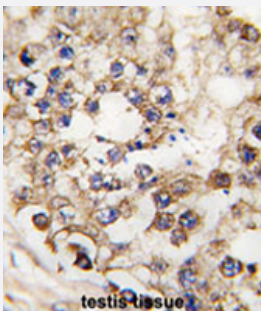
Applications



Western Blot (Transfected lysate)

Western blot analysis of PDX1 (arrow) using PDX1 polyclonal antibody (Cat # PAB2101).

293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PDX1 gene (Lane 2).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human testis tissue reacted with PDX1 polyclonal antibody (Cat # PAB2101), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PDX1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PDX1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — PDX1

Entrez GeneID	3651
Protein Accession#	NP_000200;P52945
Gene Name	PDX1
Gene Alias	GSF, IDX-1, IPF1, IUF1, MODY4, PDX-1, STF-1
Gene Description	pancreatic and duodenal homeobox 1
Omim ID	125853 260370 600733
Gene Ontology	Hyperlink
Gene Summary	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). [provided by RefSeq]

Other Designations

OTTHUMP00000018174|glucose-sensitive factor|insulin promoter factor 1, homeodomain transcription factor|insulin upstream factor 1|pancreatic-duodenal homeobox factor 1|somatostatin transcription factor 1

Publication Reference

- [A unifying working hypothesis for juvenile polyposis syndrome and Ménétrier's disease: specific localization or concomitant occurrence of a separate entity?](#)

Piepoli A, Mazzocchi G, Panza A, Tirino V, Biscaglia G, Gentile A, Valvano MR, Clemente C, Desiderio V, Papaccio G, Bisceglia M, Andriulli A.

Digestive and Liver Disease 2012 Nov; 44(11):952.

Application: IHC-P, Human, Gastric mucosa of the Ménétrier disease patient

- [Pancreatic duodenal homeobox-1 \(PDX1\) functions as a tumor suppressor in gastric cancer.](#)

Ma J, Chen M, Wang J, Xia HH, Zhu S, Liang Y, Gu Q, Qiao L, Dai Y, Zou B, Li Z, Zhang Y, Lan H, Wong BC.

Carcinogenesis 2008 Jul; 29(7):1327.

Application: IHC-P, WB-Tr, Human, Human chronic gastritis tissues, normal and metaplastic tissues adjacent to gastric cancer and cancer tissues, SGC7901 cells

- [Involvement of the homeodomain-containing transcription factor PDX-1 in islet amyloid polypeptide gene transcription.](#)

Watada H, Kajimoto Y, Kaneto H, Matsuoka T, Fujitani Y, Miyazaki J, Yamasaki Y.

Biochemical and Biophysical Research Communications 1996 Dec; 229(3):746.

Application: GSA, Mouse, MIN6 cells

Pathway

- [Maturity onset diabetes of the young](#)
- [Type II diabetes mellitus](#)

Disease

- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)

- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Intracranial Arteriosclerosis](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Obesity](#)
- [Renal Insufficiency](#)
- [Werner syndrome](#)