
Product Name: KD-Validated Pancreatic And Duodenal Homeobox 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00923**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 30.8kDa

Antigen Information

Gene Name	PDX1
Alternative Names	PDX1; Pancreatic And Duodenal Homeobox 1; IDX-1; STF-1; PDX-1; IUF-1; GSF; Islet/Duodenum Homeobox-1; Insulin Upstream Factor 1; Glucose-Sensitive Factor; MODY4; IPF1; Insulin Promoter Factor 1, Homeodomain Transcription Factor; Somatostatin-Transactivating Factor 1; Pancreas/Duodenum Homeobox Protein 1; Somatostatin Transcription Factor 1; Pancreatic-Duodenal Homeobox Factor 1; Insulin Promoter Factor 1; PAGEN1; IUF1; STF1
Gene ID	3651.0
SwissProt ID	P52945
Immunogen	A synthesized peptide derived from human PDX1

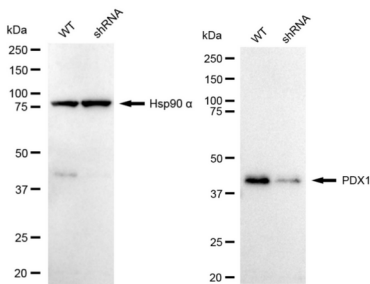
Background

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]

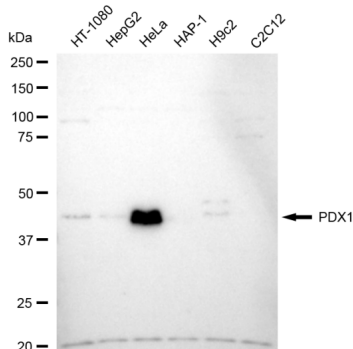
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Stem Cells, Cancer, Cardiovascular, Developmental Biology, Metabolism

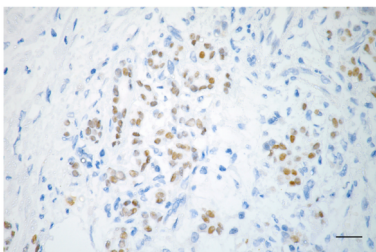
Image Data



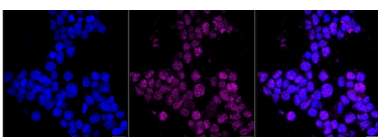
Western blotting analysis using PDX1 antibody (KVA00923). PDX1 expression in wild type (WT) and PDX1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PDX1 antibody (KVA00923, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



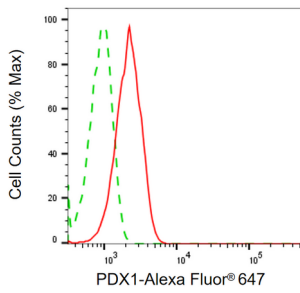
Western blotting analysis using PDX1 antibody (KVA00923). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PDX1 antibody (KVA00923, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human pancreatic adenocarcinoma using PDX1 antibody (KVA00923, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells with PDX1 antibody (KVA00923, 1:1,000). Nuclei were stained blue with DAPI; PDX1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of PDX1 expression in HeLa cells using PDX1 antibody (KVA00923, 1:2,000). Green, isotype control; red, PDX1.