

KD-Validated Anti-Pancreatic And Duodenal Homeobox 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1677**Specification****KD-Validated Anti-Pancreatic And Duodenal Homeobox 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P52945
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 31 kDa , observed, 42 kDa KDa
Gene Name	PDX1
Aliases	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
Immunogen	A synthesized peptide derived from human PDX1

KD-Validated Anti-Pancreatic And Duodenal Homeobox 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	3651
Other Names	
Pancreas/duodenum homeobox protein 1, PDX-1, 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, PDX1, IPF1, STF1	

KD-Validated Anti-Pancreatic And Duodenal Homeobox 1 Rabbit Monoclonal Antibody - Protein Information**Name** PDX1**Synonyms** IPF1, STF1**Function**

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.

Cellular Location

Nucleus. Cytoplasm, cytosol.

Tissue Location

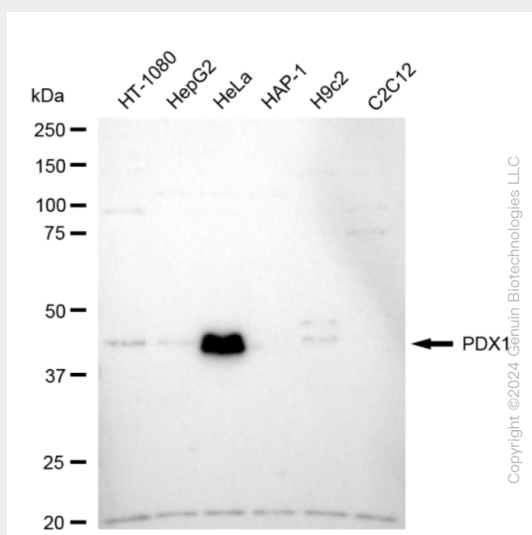
Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells)

KD-Validated Anti-Pancreatic And Duodenal Homeobox 1 Rabbit Monoclonal Antibody - Protocols

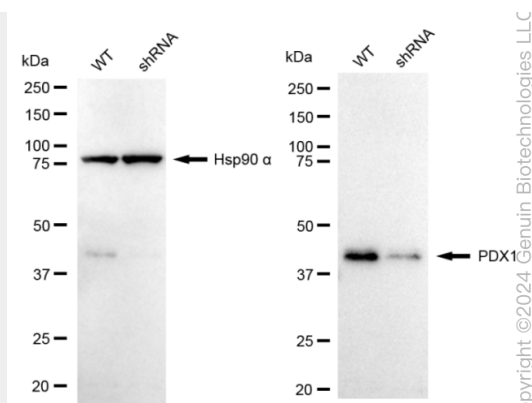
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

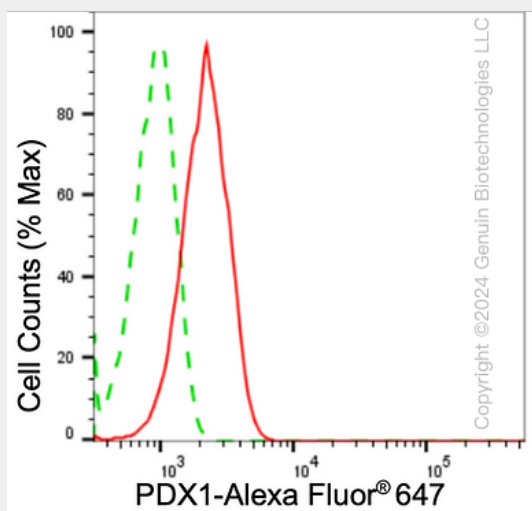
KD-Validated Anti-Pancreatic And Duodenal Homeobox 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PDX1 antibody (Cat#AGI1677). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PDX1 antibody (Cat#AGI1677, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-PDX1 antibody (Cat#AGI1677). 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 anti-PDX1 antibody (Cat#AGI1677, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of PDX1 expression in HeLa cells using anti-PDX1 antibody (Cat#AGI1677, 1:2,000). Green, isotype control; red, PDX1.