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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.

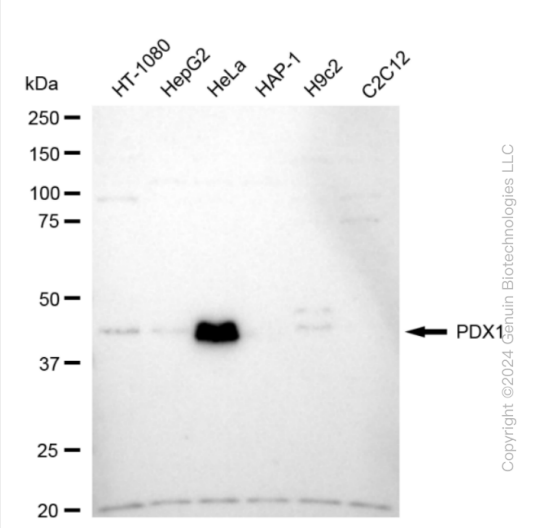
Tissue Location
Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells)

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 Cytomety
- 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.

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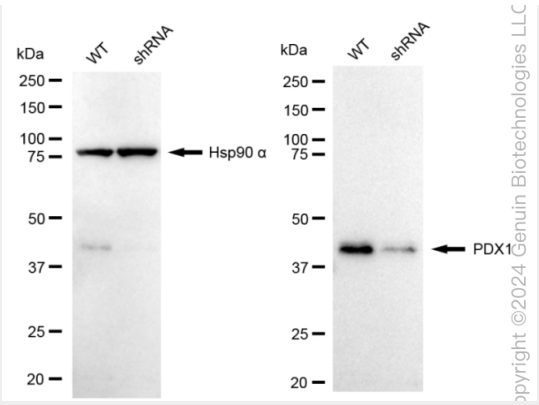
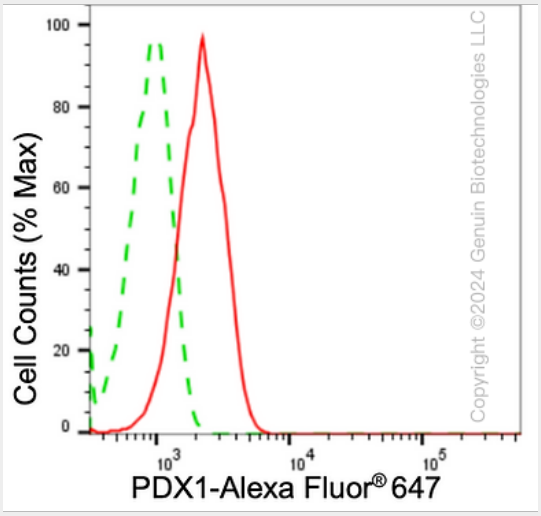


Western blotting analysis using anti-PDX1 antibody (Cat#AGI1677). PDX1 expression in wild type (WT) and PDX1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PDX1 antibody (Cat#AGI1677, 1:5,000) and HRP-conjugated 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.