

PDX1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20965b

Specification

PDX1 Antibody (N-term) - Product Information

Application WB,E
Primary Accession P52945
Reactivity Mouse, Rat
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 30771

PDX1 Antibody (N-term) - 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

Target/Specificity

This PDX1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 21-55 amino acids from the N-terminal region of human PDX1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PDX1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PDX1 Antibody (N-term) - 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

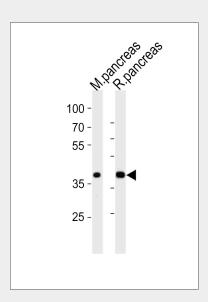
Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells)

PDX1 Antibody (N-term) - Protocols

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

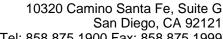
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDX1 Antibody (N-term) - Images



Western blot analysis of lysates from mouse pancreas and rat pancreas tissue (from left to right), using PDX1 Antibody (N-term)(Cat. #AP20965b). AP20965b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

PDX1 Antibody (N-term) - Background





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PDX1 Antibody (N-term) - References

Stoffel M., et al. Genomics 28:125-126(1995). Inoue H., et al. Diabetes 45:789-794(1996). Hiroshi I., et al. Submitted (JUN-1995) to the EMBL/GenBank/DDBJ databases. Marshak S., et al. Submitted (AUG-1996) to the EMBL/GenBank/DDBJ databases. Hara M., et al. Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.