

**(Mouse) Pdx1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21086a**

**Specification**

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**(Mouse) Pdx1 Antibody (Center) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IF, WB,E               |
| Primary Accession | <a href="#">P52946</a> |
| Reactivity        | Mouse                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 30999                  |

**(Mouse) Pdx1 Antibody (Center) - Additional Information**

**Gene ID** 18609

**Other Names**

Pancreas/duodenum homeobox protein 1, Insulin promoter factor 1, IPF-1, Islet/duodenum homeobox 1, IDX-1, Somatostatin-transactivating factor 1, STF-1, Pdx1, Ipf1

**Target/Specificity**

This Mouse Pdx1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 136-169 amino acids from the Central region of Mouse Pdx1.

**Dilution**

IF~~1:25

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**

(Mouse) Pdx1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**(Mouse) Pdx1 Antibody (Center) - Protein Information**

**Name** Pdx1

**Synonyms** Ipf1

**Function** Activates insulin and somatostatin gene transcription. Key regulator of islet peptide hormone expression but also responsible for the development of the pancreas, most probably by determining maturation and differentiation of common pancreatic precursor cells in the developing gut. 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 the DNA sequence 5'-CC[CT]TAATGGG-3'.

#### **Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:17052199}.  
Cytoplasm, cytosol

#### **Tissue Location**

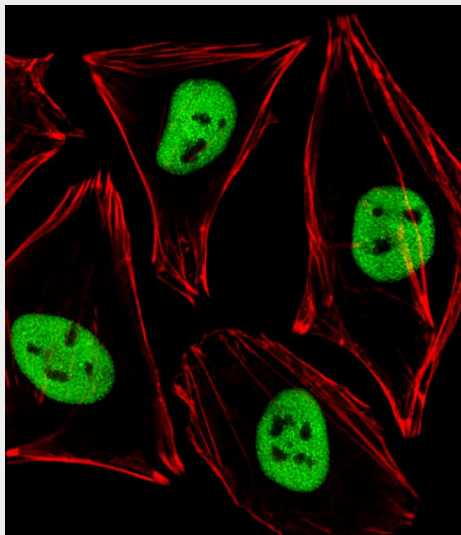
Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells)

### **(Mouse) Pdx1 Antibody (Center) - Protocols**

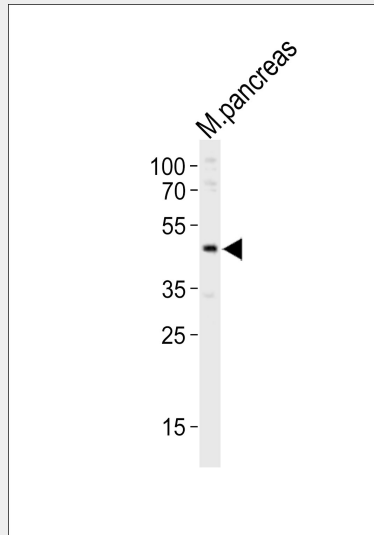
Provided below are standard protocols that you may find useful for product applications.

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

### **(Mouse) Pdx1 Antibody (Center) - Images**



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human Cervical epithelial adenocarcinoma cell line) cells labeling Pdx1 with AP21086a at 1/25 dilution, followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/400 dilution (green). Confocal image showing nuclear staining on HeLa cell line. Cytoplasmic actin is detected with Alexa Fluor® 555 conjugated with Phalloidin (OB16636430) at 1/100 dilution (red).



Western blot analysis of lysate from mouse pancreas tissue lysate, using Pdx1 Antibody (Center)(Cat. #AP21086a). AP21086a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

#### **(Mouse) Pdx1 Antibody (Center) - Background**

Activates insulin and somatostatin gene transcription. Key regulator of islet peptide hormone expression but also responsible for the development of the pancreas, most probably by determining maturation and differentiation of common pancreatic precursor cells in the developing gut. 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 the DNA sequence 5'-CC[CT]TAATGGG-3'.

#### **(Mouse) Pdx1 Antibody (Center) - References**

- Ohlsson H.,et al.EMBO J. 12:4251-4259(1993).
- Carninci P.,et al.Science 309:1559-1563(2005).
- Swift G.H.,et al.Mol. Cell. Biol. 18:5109-5120(1998).
- Liu Y.,et al.J. Biol. Chem. 276:17985-17993(2001).
- Liu A.,et al.Mol. Cell. Biol. 24:4372-4383(2004).