

**PDX1 Antibody**  
Rabbit mAb  
Catalog # AP90168

## Specification

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### PDX1 Antibody - Product Information

|  |                        |
|--|------------------------|
| Application                            | WB, IHC, ICC           |
| Primary Accession                      | <a href="#">P52945</a> |
| Clonality                              | Monoclonal             |
| <b>Other Names</b>                     |                        |
| GSF;IPF1;IUF1;IDX-1;MODY4;PDX-1;STF-1; |                        |
| Isotype                                | Rabbit IgG             |
| Host                                   | Rabbit                 |
| Calculated MW                          | 30771 Da               |

### PDX1 Antibody - Additional Information

|                              |  |
|------------------------------|--|
| Purification                 | Affinity-chromatography  |
| Immunogen                    | A synthesized peptide derived from human PDX1  |
| Description                  | 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. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.  |

### PDX1 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

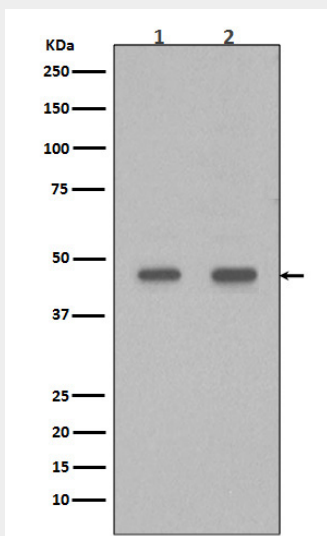
Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells)

### PDX1 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](#)

### PDX1 Antibody - Images



Western blot analysis of PDX1 in (1) Caco-2 cell Lysate;(2) BxPC-3 cell Lysate.