

**IPF Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7740b****Specification**

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**IPF Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P52945](#)**IPF Antibody (C-term) Blocking Peptide - 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**

The synthetic peptide sequence used to generate the antibody [AP7740b](/products/AP7740b) was selected from the C-term region of human IPF. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**IPF Antibody (C-term) Blocking Peptide - 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)

**IPF Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**IPF Antibody (C-term) Blocking Peptide - Images****IPF Antibody (C-term) Blocking Peptide - Background**

IPF is a transcriptional activator of several genes, including insulin, somatostatin, glucokinase, islet amyloid polypeptide, and glucose transporter type 2. This nuclear protein is involved in the early development of the pancreas and plays a major role in glucose-dependent regulation of insulin gene expression. Defects in this gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetes mellitus (NIDDM), as well as maturity onset diabetes of the young type 4 (MODY4).

**IPF Antibody (C-term) Blocking Peptide - References**

Ma,J., Carcinogenesis 29 (7), 1327-1333 (2008)Watada,H., Biochem. Biophys. Res. Commun. 229 (3), 746-751 (1996)