10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDX1 Antibody (aa27-76)
Rabbit Polyclonal Antibody
Catalog # ALS16538

Specification

PDX1 Antibody (aa27-76) - Product Information

Application	**IHC**
Primary Accession	P52945
Other Accession	3651
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**30771**

PDX1 Antibody (aa27-76) - Additional Information

Gene ID 3651

Other Names
PDX1, Glucose-sensitive factor, Insulin upstream factor 1, IPF1, Insulin promoter factor 1, IPF-1, IUF-1, STF-1, GSF, IDX-1, Islet/duodenum homeobox-1, IUF1, MODY4, PDX-1

Target/Specificity
PDX1 Antibody detects endogenous levels of total PDX1 protein.

Reconstitution & Storage
PBS (without Mg2+, Ca2+), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol. Store at -20°C for up to one year.

Precautions
PDX1 Antibody (aa27-76) is for research use only and not for use in diagnostic or therapeutic procedures.

PDX1 Antibody (aa27-76) - 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)

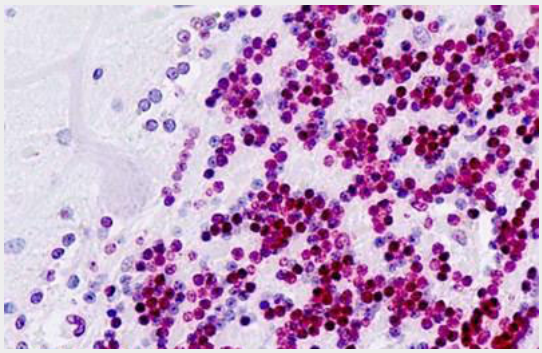
Volume
50 µl

PDX1 Antibody (aa27-76) - 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 (aa27-76) - Images



Anti-PDX1 / IPF1 antibody IHC staining of human brain, cerebellum.

PDX1 Antibody (aa27-76) - Background

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.

PDX1 Antibody (aa27-76) - 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.