

Rabbit anti-Human PDX1/Ipf1 Monoclonal Antibody | anti-PDX1 antibody

Anti-PDX1/Ipf1 Rabbit Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46950	Rabbit	Human	Western Blot, Immunocytochemistry, Immunohistochemistry, Immunofluorescence

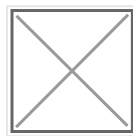
PRODUCT SYNONYMS

PDX1/Ipf1; Monoclonal Antibody; Anti-PDX1/Ipf1 Rabbit Monoclonal Antibody; 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; anti-PDX1 antibody

PRODUCT SPECIFICATIONS

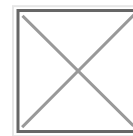
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Purity/Purification	Affinity-chromatography
Form/Format	Liquid
Sequence Length	283
Applicable Applications for anti-PDX1 antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), IF (Immunofluorescence)
Immunogen	A synthesized peptide derived from human PDX1
Subcellular Localization	Nucleus. Cytoplasm, cytosol.
Tissue Specificity	Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells).
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Western blot analysis of PDX1 in (1) Caco-2 cell Lysate; (2) BxPC-3 cell Lysate (AAA46950). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PDX1 monoclonal antibody overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PDX1



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human pancreas, using PDX1 Antibody (AAA46950). PDX1 was detected in paraffin-embedded tissue section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDX1 Antibody (AAA46950) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PDX1 antibody	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.
Product Categories/Family for anti-PDX1 antibody	Signal Transduction ; Growth Factors/Hormones ; insulin/insulin-like ; Epigenetics and Nuclear Signaling ; Transcription ; Other Factors ; Stem Cells ; Lineage Markers ; Endoderm ; Cancer ; Growth Factors ; insulin and insulin-like ; Cardiovascular ; Atherosclerosis

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557673
NCBI GeneID	3651
NCBI Accession #	NP_000200.1
NCBI GenBank Nucleotide #	NM_000209.3
UniProt Accession #	P52945; O60594; Q5VYW2
Molecular Weight	30771 MW
NCBI Official Full Name	pancreas/duodenum homeobox protein 1
NCBI Official Synonym Full Names	pancreatic and duodenal homeobox 1
NCBI Official Symbol	PDX1
NCBI Official Synonym Symbols	GSF; IPF1; IUF1; IDX-1; MODY4; PDX-1; STF-1; PAGEN1
NCBI Protein Information	pancreas/duodenum homeobox protein 1
UniProt Protein Name	Pancreas/duodenum homeobox protein 1
UniProt Gene Name	PDX1
UniProt Synonym Gene Names	IPF1; STF1; PDX-1; GSF; IPF-1; IUF-1; IDX-1; STF-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/pdx1-ipf1-antibody-western-blot-immunocytochemistry-immunohistochemistry-immunofluorescence-elisa/46950>