

Rabbit Phospho-PDX1 (T11) Polyclonal Antibody | anti-PDX1 antibody

Phospho-PDX1 (T11) Antibody

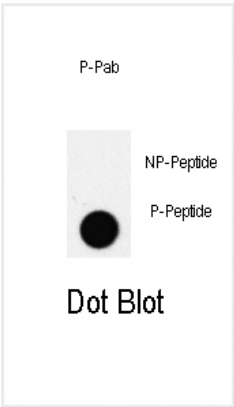
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287859	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	ELISA, Dot Blot, Immunofluorescence

PRODUCT SYNONYMS

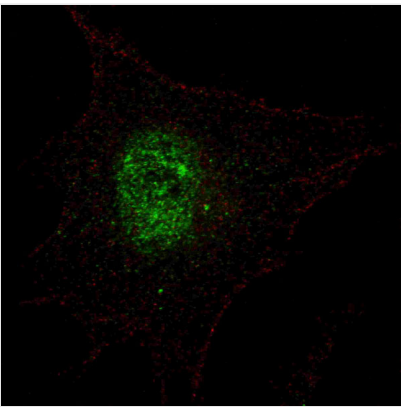
Phospho-PDX1 (T11); Polyclonal Antibody; Phospho-PDX1 (T11) Antibody; Pancreas/duodenum homeobox protein 1; PDX-1; Glucose-sensitive factor; GSF; Insulin promoter factor 1; IPF-1; Insulin upstream factor 1; IUF-1; Islet/duodenum homeobox-1; IDX-1; Somatostatin-transactivating factor 1; STF-1; PDX1; IPF1; STF1; anti-PDX1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PDX1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T11 of human PDX1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.28 (varies by lot)
Sequence Length	283
Applicable Applications for anti-PDX1 antibody	ELISA, DB (Dot Blot), IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



DB (Dot Blot)
Dot blot analysis of PDX1 Antibody (T11) Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.



IF (Immunofluorescence)
Fluorescent confocal image of SY5Y cells stained with phospho-PDX1-T11 antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA287859 phospho-PDX1-T11 primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the phospho-PDX1 immunosignal mainly to the nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-PDX1 antibody	PDX1 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. Defects in this protein 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).
Product Categories/Family for anti-PDX1 antibody	Cancer; Cardiovascular; Developmental Biology; Microbiology; Signal Transduction; Phospho Antibodies
References	References for protein: 1.Nicolino,M., et.al., Diabetes 59 (3), 733-740 (2010) 2.Cai,J., et.al., J Mol Cell Biol 2 (1), 50-60 (2010) References for SY5Y (SH-SY5Y; #CRL-2266): 1. Ross RA, et al. Coordinate morphological and biochemical interconversion of human neuroblastoma cells. J. Natl. Cancer Inst. 71: 741-749, 1983. [PubMed: 6137586]; 2. Biedler JL, et al. Multiple neurotransmitter synthesis by human neuroblastoma cell lines and clones. Cancer Res. 38: 3751-3757, 1978. [PubMed: 29704].

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
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
UniProt Entry Name	PDX1_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/phospho-pdx1-t11-antibody-dot-blot-immunofluorescence-elisa/287859>