

Mouse PDX1 Monoclonal Antibody | anti-PDX1 antibody

PDX1 antibody

CATALOG # AAA107106	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence
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PRODUCT SYNONYMS

PDX1; Monoclonal Antibody; PDX1 antibody; Monoclonal PDX1; Anti-PDX1; Pancreatic and duodenal homeobox 1; PDX 1; PDX-1; MODY4; anti-PDX1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2A12
Purity/Purification	PDX1 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	283
Applicable Applications for anti-PDX1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Biological Significance	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 gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetesmellitus (NIDDM), as well as maturity onset diabetes of the young type 4 (MODY4).
Cross-Reactivity	Human
Immunogen	PDX1 antibody was raised in mouse using a full length recombinant protein of human PDX1 (NP_000200) produced in E Coli as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemical analysis of PDX1 protein in paraffin embedded Carcinoma of Human pancreas tissue using PDX1 antibody



WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant PDX1 protein (Right) or empty vector (Left) detected with PDX1 antibody



IF (Immunofluorescence)

Immunofluorescent staining of HeLa cells transiently transfected with recombinant PDX1 protein using PDX1 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-PDX1 antibody	Mouse monoclonal PDX1 antibody
Product Categories/Family for anti-PDX1 antibody	DNA & RNA

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557673
NCBI GeneID	3651
NCBI Accession #	NP_000200
NCBI GenBank Nucleotide #	NM_000209.3
UniProt Accession #	P52945 ; O60594 ; Q5VYW2
Molecular Weight	30,771 Da
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/pdx1-antibody-clone-2a12-western-blot-immunohistochemistry-immunofluorescence-elisa/107106>