PDX1 Rabbit mAb

Catalog No: #49689

Package Size: #49689-1 50ul #49689-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

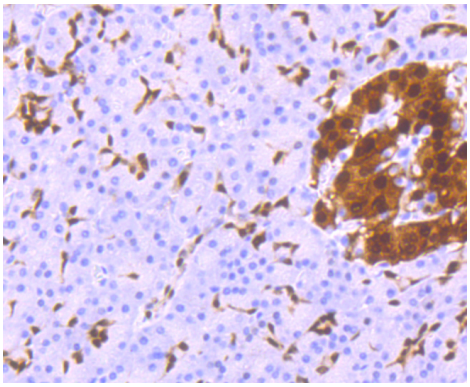
Description

Product Name	PDX1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Purification	ProA affinity purified
Applications	WB, IHC, ICC/IF
Species Reactivity	Human
Immunogen Description	Recombinant protein
Conjugates	Unconjugated
Other Names	Glucose sensitive factor antibody Glucose-sensitive factor antibody GSF antibody IDX 1 antibody IDX-1 antibody IDX1 antibody Insulin promoter factor 1 antibody Insulin promoter factor 1 homeodomain transcription factor antibody Insulin upstream factor 1 antibody IPF 1 antibody IPF-1 antibody IPF1 antibody Islet/duodenum homeobox 1 antibody Islet/duodenum homeobox-1 antibody IUF 1 antibody IUF-1 antibody IUF1 antibody MODY4 antibody Pancreas/duodenum homeobox 1 antibody Pancreas/duodenum homeobox protein 1 antibody pancreatic and duodenal homeobox P antibody PDX 1 antibody PDX-1 antibody PDX1 antibody PDX1_HUMAN antibody Somatostatin transactivating factor 1 antibody Somatostatin-transactivating factor 1 antibody STF 1 antibody STF-1 antibody STF1 antibody
Accession No.	Swiss-Prot#:P52945
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

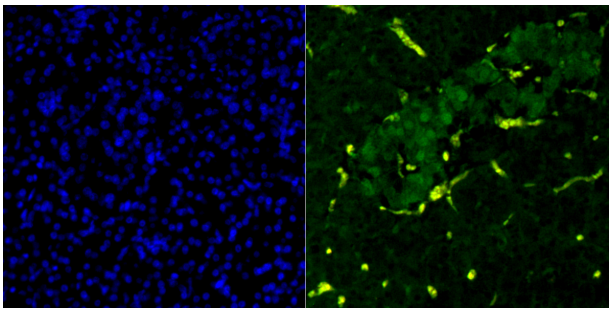
Application Details

IHC: 1:50-1:200 ICC/IF: 1:50-1:200

Images



Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-PDX1 antibody. Counter stained with hematoxylin.



IF analysis of paraffin-embedded human pancreas tissue using anti-PDX1 antibody (greenoΩ½oΩ½. The nuclear counter stain is DAPI (blue).

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. 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.

References

1. Qiu G et al. Formononetin exhibits anti-hyperglycemic activity in alloxan-induced type 1 diabetic mice. Exp Biol Med (Maywood) 242:223-230 (2017).
2. Wang W et al. PDX1 and ISL1 differentially coordinate with epigenetic modifications to regulate insulin gene expression in varied glucose concentrations. Mol Cell Endocrinol 428:38-48 (2016).

Published Papers

Pu Weidong, Pan Yang, Yang Kang, Gao Jian, Tian Fen, Song Jingrui, Huang Yubing, Li Yanmei el at., Therapeutic effects and mechanisms of Xinmaitong formula for type 2 diabetes mellitus via GLP-1R signaling, Frontiers in pharmacology, (2025)
PMID:40271065

Note: This product is for in vitro research use only and is not intended for use in humans or animals.