abcam

Product datasheet

Anti-PDX1 antibody ab79388

1 References 1 图像

概述

产品名称	Anti-PDX1抗体
描述	**兔多克隆抗体**to PDX1
宿主	Rabbit
特异性	This antibody detects endogenous levels of total PDX1 protein.
经测试应用	**适用于:** ELISA, WB
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat
免疫原	Synthesized non phosphopeptide derived from human PDX1 around the phosphorylation site of serine 61 (Q-G-S^{P}-P-P).
阳性对照	Extracts from HT-29 cells treated with serum (20 %, 15 minutes).

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{2+} and Ca^{2+}), 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
纯化说明	The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab79388** in the following tested applications.

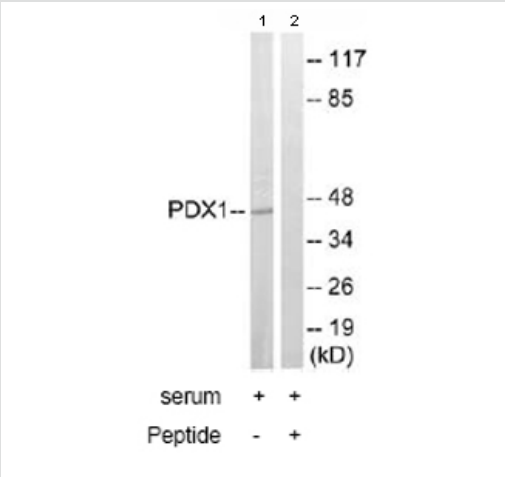
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ELISA		1/40000.
WB		1/500 - 1/1000. Predicted molecular weight: 31 kDa.

靶标

功能	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.
组织特异性	Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells).
疾病相关	Defects in PDX1 are a cause of pancreatic agenesis (PAC) [MIM:260370]. This autosomal recessive disorder is characterized by absence or hypoplasia of pancreas, leading to early-onset insulin-dependent diabetes mellitus. This was found in a frameshift mutation that produces a truncated protein and results in a second initiation that produces a second protein that act as a dominant negative mutant. Defects in PDX1 are a cause of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853]; also known as diabetes mellitus type 2. NIDDM is characterized by an autosomal dominant mode of inheritance, onset during adulthood and insulin resistance. Defects in PDX1 are the cause of maturity-onset diabetes of the young type 4 (MODY4) [MIM:606392]; also symbolized MODY-4. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.
序列相似性	Belongs to the Antp homeobox family. IPF1/XlHbox-8 subfamily. Contains 1 homeobox DNA-binding domain.
结构域	The Antp-type hexapeptide mediates heterodimerization with PBX on a regulatory element of the somatostatin promoter. The homeodomain, which contains the nuclear localization signal, not only mediates DNA-binding, but also acts as a protein-protein interaction domain for TCF3(E47), NEUROD1 and HMG-I(Y).
翻译后修饰	Phosphorylated by the SAPK2 pathway at high intracellular glucose concentration.
细胞定位	Nucleus.

图片



Western blot - PDX1 antibody (ab79388)

All lanes : Anti-PDX1 antibody (ab79388) at 1/500 dilution

Lane 1 : Extracts from HT-29 cells

Lane 2 : Extracts from HT-29 cells with immunizing peptide at 5 µg

Lysates/proteins at 10 µg per lane.

Predicted band size: 31 kDa

Observed band size: 41 kDa

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