

Product datasheet

Anti-PDX1 antibody ab94931

概述

产品名称

Anti-PDX1抗体

描述

山羊多克隆抗体to PDX1

该产品是 **快线抗体**，通过亲和纯化得到。对抗原肽有高灵敏度及特异性 (ELISA测试)。

[Read the terms of use »](#)

宿主

Goat

种属反应性

预测可用于: Mouse, Rat, Dog, Human, Pig, Chimpanzee, Rhesus monkey

免疫原

Synthetic peptide:

C-AAEPEENKRTRTA

, corresponding to internal sequence amino acids 140-152 of Human PDX1 (NP_000200.1).

[Run BLAST with](#)

[Run BLAST with](#)

性能

形式

Liquid

存放说明

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

存储溶液

Preservative: 0.02% Sodium Azide

Constituents: 0.5% BSA, Tris buffered saline, pH 7.3

纯度

Immunogen affinity purified

纯化说明

ab94931 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

克隆

多克隆

同种型

IgG

应用

Fast track antibodies constitute a diverse group of products that have been released to accelerate your research, but are not yet fully characterized. They have all been affinity purified and show high titre values against the immunizing peptide (by ELISA).

[Fast track terms of use](#)

应用	Ab 评论	说明
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WB Use at an assay dependent dilution. Predicted molecular weight: 31 kDa. Preliminary experiments in Human, Mouse and Rat Pancreas lysates gave no specific signal but low background (at antibody concentration up to 1µg/ml).

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	<p>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.</p> <p>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.</p> <p>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.</p>
序列相似性	<p>Belongs to the Antp homeobox family. IPF1/XIHbox-8 subfamily.</p> <p>Contains 1 homeobox DNA-binding domain.</p>
结构域	<p>The Antp-type hexapeptide mediates heterodimerization with PBX on a regulatory element of the somatostatin promoter.</p> <p>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).</p>
翻译后修饰	Phosphorylated by the SAPK2 pathway at high intracellular glucose concentration.
细胞定位	Nucleus.

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