

Anti-PDX1 antibody ab47267

★★★★☆ [16 Abreviews](#) [97 References](#) [4 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
经测试应用	适用于: ICC/IF, IHC-P
种属反应性	与反应: Human
免疫原	Recombinant fragment corresponding to Mouse PDX1 (N terminal). Database link: P52946
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab47267于以下的经测试应用

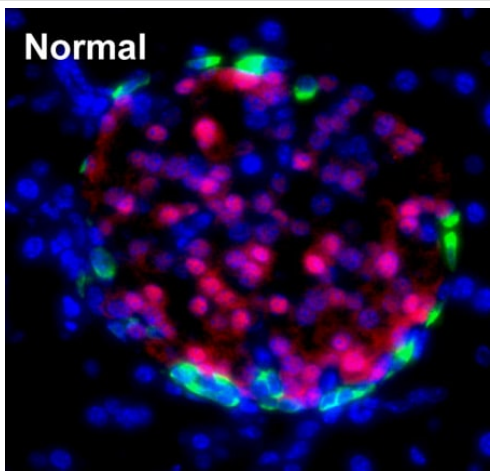
“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (3)	1/2000. See ICC-specific protocol in protocol tab.
IHC-P	★★★★★ (6)	Use at an assay dependent concentration. See IHC-specific protocol in protocol tab.

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/XI Hbox-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.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDX1 antibody (ab47267)

Image from Zhang Y et al., PLoS One. 2012;7(5):e36675. Epub 2012 May 7. Fig 7.; doi:10.1371/journal.pone.0036675; May 7, 2012, PLoS ONE 7(5): e36675.

Immunohistochemical analysis of murine pancreatic islets, staining PDX1 (red) with ab47267.

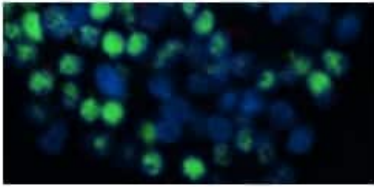
Tissue was fixed in formalin, permeabilized with 0.25% Triton X-100, and blocked in blocking solution for 1 hour at room temperature; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody overnight at 4°C and a fluorescent-conjugated anti-rabbit IgG was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDX1 antibody (ab47267)

This image is courtesy of Antibody Solutions Ltd.

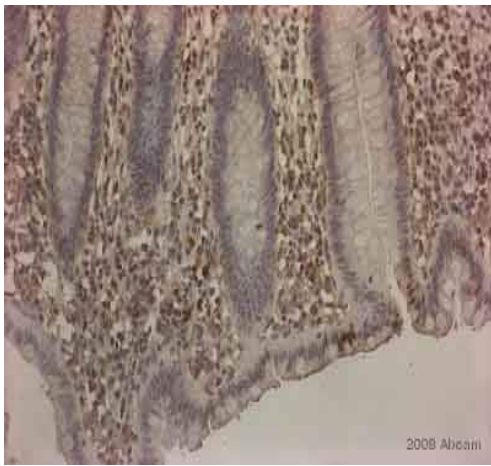
ab47267 staining PDX1 in rat pancreatic tissue sections by immunohistochemistry (Formalin/PFA-fixed paraffin embedded sections). Tissue underwent fixation in formaldehyde, heat mediated antigen retrieval in citrate buffer pH6.0 and blocking for 15 minutes at 20°C. The primary antibody was diluted 1/500 and incubated with sample for 45 minutes at 20°C. A HRP-conjugated goat polyclonal to rabbit IgG was used undiluted as secondary.



2007 Abcam

Immunocytochemistry/ Immunofluorescence - Anti-PDX1 antibody (ab47267)

Immunostaining of islet-epithelial clusters from human foetal pancreata with ab47267 (green). Nuclei are visualised with DAPI (blue).



2008 Abcam

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDX1 antibody (ab47267)

This image is courtesy of Antibody Solutions Ltd.

ab47267 staining PDX1 in human appendix tissue sections by immunohistochemistry (Formalin/PFA-fixed paraffin embedded sections). Tissue underwent fixation in formaldehyde, heat mediated antigen retrieval in citrate buffer pH6.0 and blocking for 15 minutes at 20°C (5 minutes for peroxide block and 10 minutes for protein block). The primary antibody was diluted 1/500 and incubated with sample for 45 minutes at 20°C. A HRP-conjugated goat polyclonal to rabbit IgG was used undiluted as the secondary.

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