

Nur für Forschungszwecke

# PDX1 Polyklonaler Antikörper

Katalog-Nr.: 20989-1-AP

10 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 20989-1-AP	<b>GenBank-Zugangsnummer:</b> NM_000209	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul, Konzentration: 500 µg/ml von Nanodrop und 267 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 3651	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:1000
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> pancreatic and duodenal homeobox 1	
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 31 kDa	
	<b>Beobachtete Masse:</b> 40-50 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> WB, ELISA	<b>Positivkontrollen:</b> WB : PC-3-Zellen, BxPC-3-Zellen
<b>In Publikationen genannte Anwendungen:</b> IF, IHC, WB	
<b>Getestete Reaktivität:</b> Human, Maus	
<b>Zitierte Arten:</b> Human, Maus, Ratte	

## Hintergrundinformationen

Pancreatic duodenal homeobox-1 protein (PDX-1), also designated INS promoter factor (IPF1), INS upstream factor 1 (IUF1), somatostatin trans-activating factor-1 (STF-1) and glucose-sensitive factor (GSF), is a 282 amino acid homeodomain-containing transcription factor present in pancreatic beta-cells. PDX-1 is a key regulator of pancreatic islet development and INS gene transcription in beta-cells. PDX-1 is expressed in all cells at the early stages of development and is mainly restricted to the pancreas and duodenum in adult. HNF-3b, HNF-1a and SP1 positively regulate the PDX-1 enhancer element. PDX-1 is also regulated by glucagon-like peptide through activation of adenylyl cyclase, which results in an increase in intracellular cAMP activity. The increased levels of cAMP, and the resulting activation of PKA, lead to an increase in PDX-1 transcription and translocation of the protein to the nuclei of beta-cells. PDX-1 binds to the sequence C(C/T) and can heterodimerize with PBX. PDX-1 is phosphorylated by the SAPK2 pathway under high glucose concentrations. Mutations in the PDX-1 gene can cause maturity-onset diabetes of the young and pancreatic agenesis.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Nan Zhang	30455626	Front Neurosci	IF
Yanrong Yu	35616388	Biofabrication	IF
Xinlei Yao	32690606	J Biol Chem	WB

## Lagerung

**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

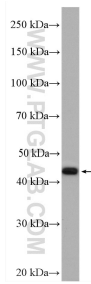
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

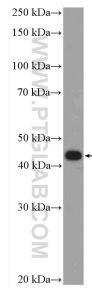
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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## Ausgewählte Validierungsdaten



BxPC-3 cells were subjected to SDS PAGE followed by western blot with 20989-1-AP (PDX1 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.



PC-3 cells were subjected to SDS PAGE followed by western blot with 20989-1-AP (PDX1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.