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PDX1 Protein (His tag)



Overview

Source:



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Quantity:	50 μg
Target:	PDX1
Origin:	Human

Protein Type:	Recombinant
Purification tag / Conjugate:	This PDX1 protein is labelled with His tag.

Application: Antibody Production (AbP), Standard (STD)

Escherichia coli (E. coli)

Product Details

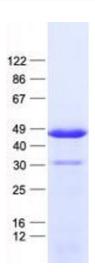
Characteristics:	 Recombinant human Insulin promoter factor 1 (N-term HIS tag) protein expressed in E.coli.
	Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining

Target Details

Target:	PDX1
Alternative Name:	Insulin Promoter Factor 1 (PDX1 Products)
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. As part of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells is involved in
	the transcriptional activation of the ELA1 enhancer the complex binds to the enhancer B
	element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer

Target Details

	A element. 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. [UniProtKB/Swiss-Prot Function]
Molecular Weight:	30.6 kDa
NCBI Accession:	NP_000200
Pathways:	Nuclear Receptor Transcription Pathway, Positive Regulation of Peptide Hormone Secretion, Steroid Hormone Mediated Signaling Pathway, Hormone Transport, Carbohydrate Homeostasis , Chromatin Binding, Maintenance of Protein Location
Application Details	
Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the N-terminal.
Restrictions:	For Research Use only
Handling	
Concentration:	50 μg/mL
Buffer:	25 mM Tris, pH 8.0, 150 mM NaCl, 10 % glycerol, 1 % Sarkosyl.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot