

Pancreas/duodenum homeobox protein 1

Catalog No: #AP79443

Package Size: #AP79443-1 50ug #AP79443-2 100ug #AP79443-3 1mg

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Description

Product Name	Pancreas/duodenum homeobox protein 1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Human
Immunogen Description	Recombinant protein
Other Names	IPF1,STF1,Glucose-sensitive factor,Insulin promoter factor 1,Insulin upstream factor 1,Islet/duodenum homeobox-1,Somatostatin-transactivating factor 1,GSF,IPF-1,IUF-1,IDX-1,STF-1
Accession No.	P52945Gene name:PDX1
Uniprot	P52945
GeneID	3651;
Tag Info	His
Formulation	50mM NaH ₂ PO ₄ , 500mM NaCl Buffer with 500mM Imidazole,10%glycerol(PH8.0)
Storage	Store at -20C. (Avoid repeated freezing and thawing.)Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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 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.

References

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Note: This product is for in vitro research use only