

Recombinant Rat Pdx1 Protein, His&GST-tagged

Cat. No. Pdx1-2749R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Pdx1 Protein (Met1-Arg283) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met1-Arg283
Description	Enables DNA-binding transcription factor activity; promoter-specific chromatin binding activity; and sequence-specific DNA binding activity. Contributes to DNA-binding transcription factor activity, RNA polymerase II-specific. Involved in several processes, including animal organ development; detection of glucose; and regulation of transcription, DNA-templated. Located in nucleus. Colocalizes with cytoplasm. Biomarker of acute necrotizing pancreatitis; hyperglycemia; placental insufficiency; and type 2 diabetes mellitus. Human ortholog(s) of this gene implicated in cerebral infarction; hyperglycemia; maturity-onset diabetes of the young type 4; pancreatic agenesis; and type 2 diabetes mellitus. Orthologous to human PDX1 (pancreatic and duodenal homeobox 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 60.8 kDa Accurate Molecular Mass: 62 kDa

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Pdx1 pancreatic and duodenal homeobox 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Pdx1
Synonyms	Pdx1; pancreatic and duodenal homeobox 1; Idx1; lpf1; Stf1; pancreas/duodenum homeobox protein 1; IDX-1; IPF-1; Insulin promoter factor 1; STF-1; insulin promotor factor 1; islet/duodenum homeobox-1; pancreatic and duodenal homeobox gene 1; somatostatin transactivating factor 1
Gene ID	29535

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mRNA Refseq	NM_022852
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Protein Refseq	NP_074043
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UniProt ID	P52947
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