

Recombinant Human PDX1 protein ab114175

画像数 1

製品の詳細

製品名	Recombinant Human PDX1 protein
発現系	Wheat germ
アクセッション番号	P52945
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	<p>MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGRQP</p> <p>PPPPPHPF</p> <p>PGALGALEQGSPPDISPYEVPLADDPVAHLHHHLPAQLAL</p> <p>PHPPAGPF</p> <p>PEGAEPGVLEEPNRVQLPFPWMKSTKAHAWKGQWAGGAYAAE</p> <p>PEENKRTR</p> <p>TAYTRAQLLELEKEFLFNKYISRPRRVELAVMLNLTERHIKI</p> <p>WFQNRMRK</p> <p>WKKEEDKKRGGGTAVGGGGVAEPEQDCAVTSGEELLALPPPP</p> <p>PPGGAVPP AAPVAAREGRLPPGLSASPQPSSVAPRRPQEPR</p>
予測される分子量	58 kDa including tags
領域	1 to 283

特性

Our **Abpromise guarantee** covers the use of **ab114175** in the following tested applications.

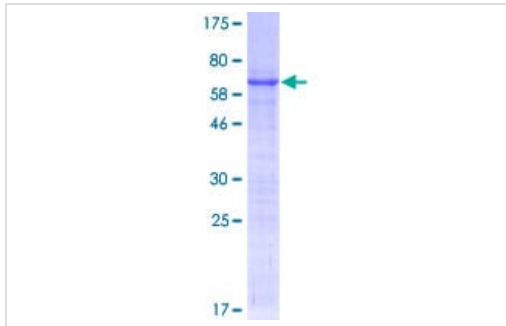
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
	Western blot
	ELISA
製品の状態	Liquid

前処理および保存

保存方法および安定性	<p>Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.3% Glutathione, 0.79% Tris HCl</p>
関連情報	
機能	<p>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.</p>
組織特異性	<p>Duodenum and pancreas (Langerhans islet beta cells and small subsets of endocrine non-beta-cells, at low levels in acinar cells).</p>
関連疾患	<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>
配列類似性	<p>Belongs to the Antp homeobox family. IPF1/XI Hbox-8 subfamily.</p> <p>Contains 1 homeobox DNA-binding domain.</p>
ドメイン	<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>
翻訳後修飾	<p>Phosphorylated by the SAPK2 pathway at high intracellular glucose concentration.</p>
細胞内局在	<p>Nucleus.</p>

画像



SDS-PAGE - Recombinant Human PDX1 protein
(ab114175)

ab114175 on a 12.5% SDS-PAGE Stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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