

(Mouse) Pdx1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21086a

Product Information

Application WB, IF, E **Primary Accession** P52946 Reactivity Mouse Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB51197 **Calculated MW** 30999

Additional Information

Gene ID 18609

Other Names Pancreas/duodenum homeobox protein 1, Insulin promoter factor 1, IPF-1,

Islet/duodenum homeobox 1, IDX-1, Somatostatin-transactivating factor 1,

STF-1, Pdx1, Ipf1

Target/Specificity This Mouse Pdx1 antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 136-169 amino acids from the Central

region of Mouse Pdx1.

Dilution WB~~1:1000 IF~~1:25 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This

antibody is purified through a protein A column, followed by peptide affinity

purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions (Mouse) Pdx1 Antibody (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name Pdx1

Synonyms Ipf1

Function Activates insulin and somatostatin gene transcription. Key regulator of islet

peptide hormone expression but also responsible for the development of the

pancreas, most probably by determining maturation and differentiation of common pancreatic precursor cells in the developing gut. 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 the DNA sequence 5'-CC[CT]TAATGGG-3'.

Cellular Location Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00108,

ECO:0000269 | PubMed:17052199 }. Cytoplasm, cytosol

Tissue Location Duodenum and pancreas (Langerhans islet beta cells and small subsets of

endocrine non-beta-cells, at low levels in acinar cells)

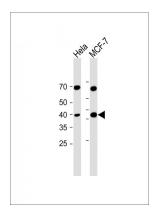
Background

Activates insulin and somatostatin gene transcription. Key regulator of islet peptide hormone expression but also responsible for the development of the pancreas, most probably by determining maturation and differentiation of common pancreatic precursor cells in the developing gut. 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 the DNA sequence 5'-CC[CT]TAATGGG-3'.

References

Ohlsson H.,et al.EMBO J. 12:4251-4259(1993). Carninci P.,et al.Science 309:1559-1563(2005). Swift G.H.,et al.Mol. Cell. Biol. 18:5109-5120(1998). Liu Y.,et al.J. Biol. Chem. 276:17985-17993(2001). Liu A.,et al.Mol. Cell. Biol. 24:4372-4383(2004).

Images



All lanes: Anti-(Mouse) Pdx1 Antibody (Center) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 37 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.