

(Mouse) Pdx1 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21086a

Specification

(Mouse) Pdx1 Blocking Peptide (Center) - Product Information

Primary Accession [P52946](#)

(Mouse) Pdx1 Blocking Peptide (Center) - 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

The synthetic peptide sequence is selected from aa 136-149 of HUMAN Pdx1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

(Mouse) Pdx1 Blocking Peptide (Center) - 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)

(Mouse) Pdx1 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

(Mouse) Pdx1 Blocking Peptide (Center) - Images**(Mouse) Pdx1 Blocking Peptide (Center) - Background**

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(Mouse) Pdx1 Blocking Peptide (Center) - References

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Liu Y., et al. J. Biol. Chem. 276:17985-17993(2001).
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