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PDX1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP2034b

Specification

PDX1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession O00330

PDX1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 8050

Other Names
Pyruvate dehydrogenase protein X component, mitochondrial, Dihydrolipoamide dehydrogenase-binding protein of pyruvate dehydrogenase complex, E3-binding protein, E3BP, Lipoyl-containing pyruvate dehydrogenase complex component X, proX, PDHX, PDX1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2034b was selected from the C-term region of human PDX1 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PDX1 Antibody (C-term) Blocking Peptide - Protein Information

Name PDHX

Synonyms PDX1

Function
Required for anchoring dihydrolipoamide dehydrogenase (E3) to the dihydrolipoamide transacetylase (E2) core of the pyruvate dehydrogenase complexes of eukaryotes. This specific binding is essential for a functional PDH complex.

Cellular Location
Mitochondrion matrix.

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PDX1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PDX1 Antibody (C-term) Blocking Peptide - Images

PDX1 Antibody (C-term) Blocking Peptide - Background

PDX1, located in the mitochondrial matrix, is required for anchoring dihydrolipoamide dehydrogenase (E3) to the dihydrolipoamide transacetylase (E2) core of the pyruvate dehydrogenase complexes of eukaryotes. This specific binding is essential for a functional PDH complex. Eukaryotic pyruvate dehydrogenase complexes are organized about a core consisting of the oligomeric dihydrolipoamide acetyl-transferase, around which are arranged multiple copies of pyruvate dehydrogenase, dihydrolipoamide dehydrogenase and protein X bound by noncovalent bonds. Defects in PDHX are a cause of lacticacidemia. PDX1 belongs to the 2-oxoacid dehydrogenase family and contains 1 lipoyl-binding domain.

PDX1 Antibody (C-term) Blocking Peptide - References

Ling, M., et al., Hum. Mol. Genet. 7(3):501-505 (1998).Harris, R.A., et al., J. Biol. Chem. 272(32):19746-19751 (1997).Murray, J., et al., FEBS Lett. 529 (2-3), 173-178 (2002).