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anti-PDX1 antibody (AA 1-30)



Overview

Alternative Name:

Background:



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OVEIVIEW	
Quantity:	0.4 mL
Target:	PDX1
Binding Specificity:	AA 1-30
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDX1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)
Product Details	
Immunogen:	A portion of amino acids 1-30 from the human protein was used as the immunogen for this PDX1 antibody.
Isotype:	lg Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat
Purification:	Antigen affinity purified
Target Details	
Target:	PDX1

PDX1, located in the mitochondrial matrix, is required for anchoring dihydrolipoamide

PDX1 (PDX1 Products)

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.

UniProt:

000330

Pathways:

Nuclear Receptor Transcription Pathway, Positive Regulation of Peptide Hormone Secretion,
Steroid Hormone Mediated Signaling Pathway, Hormone Transport, Carbohydrate Homeostasis
, Chromatin Binding, Maintenance of Protein Location

Application Details

Application Notes:

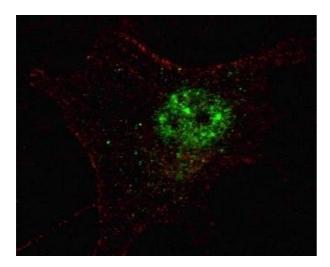
Titration of the PDX1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Immunofluorescence: 1:100,Western blot: 1:1000,IHC (Paraffin): 1:10-1:50

Restrictions:

For Research Use only

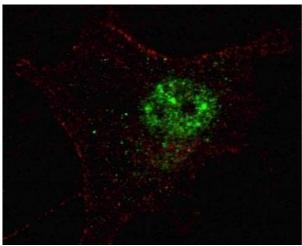
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the PDX1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



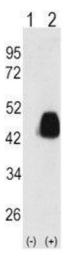
Immunofluorescence

Image 1. Fluorescent confocal image of SY5Y cells stained with PDX1 antibody. Alexa Fluor 488 conjugated secondary (green) was used. Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the PDX1 immunosig



Immunofluorescence

Image 2. Fluorescent confocal image of SY5Y cells stained with PDX1 antibody. Alexa Fluor 488 conjugated secondary (green) was used. Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the PDX1 immunosignal to the nucleus.



Western Blotting

Image 3. Western blot analysis of PDX1 antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected with the PDX1 gene (2).

Please check the product details page for more images. Overall 6 images are available for ABIN3032144.