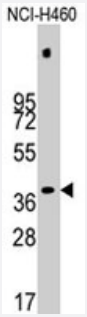
PDHX polyclonal antibody

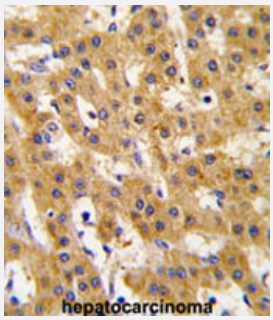
Catalog # PAB3861 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PDHX polyclonal antibody (Cat # PAB3861) in NCI-H460 cell line lysates (35 ug/lane).PDHX (arrow) was detected using the purified polyclonal antibody (1:1000 dilution).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocarcinomareacted with PDHX polyclonal antibody (Cat # PAB3861), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.
This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PDHX.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding T11 of human PDHX.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Immunofluorescence (1:100) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Immunofluorescence

Gene Info — PDHX

Entrez GeneID	8050
Protein Accession#	NP_003468;O00330
Gene Name	PDHX
Gene Alias	DLDBP, E3BP, OPDX, PDX1, proX
Gene Description	pyruvate dehydrogenase complex, component X
Omim ID	245349 608769
Gene Ontology	Hyperlink

Gene Summary	The PDHX gene encodes component X of the pyruvate dehydrogenase (PDH) complex. For a de tailed description of the pyruvate dehydrogenase complex, see MIM 300502. The mammalian PD H complex differs from that in E. coli and from the other mammalian alpha-keto acid dehydrogena ses by the presence of a 53-kD protein called protein X. Component X binds to the E3 (MIM 2383 31) component of the PDH complex (Robinson et al., 1990 [PubMed 2112155]; Aral et al., 1997 [PubMed 9399911]).[supplied by OMIM
Other Designations	E3-binding protein|pyruvate dehydrogenase complex, lipoyl-containing component X

Publication Reference

- Detection of a homozygous four base pair deletion in the protein X gene in a case of pyruvate dehydrogenase complex deficiency.

  Ling M, McEachern G, Seyda A, MacKay N, Scherer SW, Bratinova S, Beatty B, Giovannucci-Uzielli ML, Robinson BH.

  Human Molecular Genetics 1998 Mar; 7(3):501.

- Mutations in PDX1, the human lipoyl-containing component X of the pyruvate dehydrogenase-complex gene on chromosome 11p1, in congenital lactic acidosis.

  Aral B, Benelli C, Ait-Ghezala G, Amessou M, Fouque F, Maunoury C, Creau N, Kamoun P, Marsac C.

  American Journal of Human Genetics 1997 Dec; 61(6):1318.

- Dihydrolipoamide dehydrogenase-binding protein of the human pyruvate dehydrogenase complex. DNA-derived amino acid sequence, expression, and reconstitution of the pyruvate dehydrogenase complex.

  Harris RA, Bowker-Kinley MM, Wu P, Jeng J, Popov KM.

  The Journal of Biological Chemistry 1997 Aug; 272(32):19746.