

For Research Use Only

PDHX Polyclonal antibody

Catalog Number: 10951-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

10951-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1389

GenBank Accession Number:

BC010389

GeneID (NCBI):

8050

UNIPROT ID:

O00330

Full Name:

pyruvate dehydrogenase complex, component X

Calculated MW:

54 kDa

Observed MW:

54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : BxPC-3 cells, HEK-293 cells, SKOV-3 cells, HepG2 cells, NIH/3T3 cells, mouse kidney tissue

IP : HEK-293 cells,

IHC : human colon cancer tissue,

Background Information

PDHX (Pyruvate dehydrogenase protein X component), an E3-binding protein in the PDC, is acetylated by the p300 at Lys 488, impeding the interaction between PDHX and dihydrolipoyl transacetylase (E2), thereby disrupting PDC assembly to inhibit its activation (PMID: 30012170). PDHX was characterized as a metabolically essential gene for esophageal squamous cell carcinoma (ESCC), and knockdown of PDHX inhibited the proliferation of cancer stem cells (CSCs) and in vivo tumor growth (PMID: 33964039). Western blot analysis detected PDHX at an apparent molecular mass of 54 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xixi Guo	31480692	Biomolecules	WB
Jing-Ting Li	25301554	Biochem Biophys Res Commun	WB, IP
Murali K Yanda	34823104	Cell Calcium	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

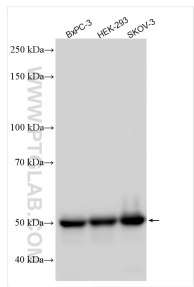
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

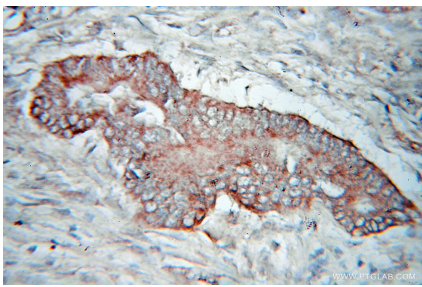
E: proteintech@ptglab.com
W: ptglab.com

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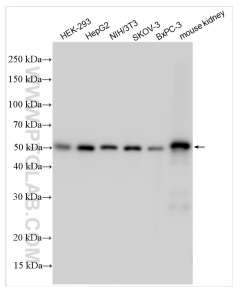
Selected Validation Data



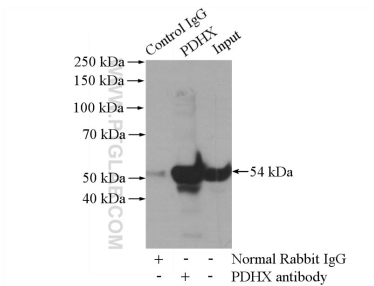
Various lysates were subjected to SDS PAGE followed by western blot with 10951-1-AP (PDHX antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10951-1-AP (PDHX antibody) at dilution of 1:100 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 10951-1-AP (PDHX antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



IP result of anti-PDHX (IP:10951-1-AP, 4ug; Detection:10951-1-AP 1:5000) with HEK-293 cells lysate 2000ug.