

For Research Use Only

PDHX Polyclonal antibody, PBS Only

Catalog Number: 10951-1-PBS

Featured Product



Basic Information

Catalog Number:

10951-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

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

Applications

Tested Applications:

WB, IHC, IP, Indirect ELISA

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

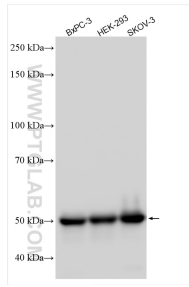
For technical support and original validation data for this product please contact:

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

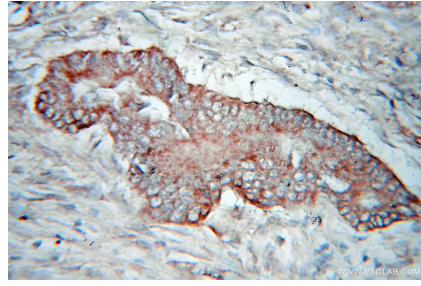
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

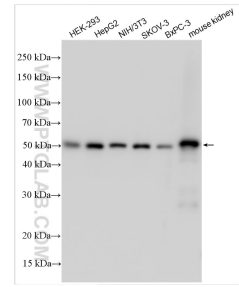
Selected Validation Data



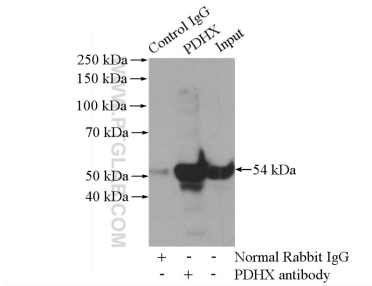
Various lysates were subjected to SDS PAGE followed by western blot with 10951-1-AP (PDHX antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10951-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 10951-1-AP (PDHX antibody) at dilution of 1:100 (under 40x lens). This data was developed using the same antibody clone with 10951-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 10951-1-PBS in a different storage buffer formulation.



IP result of anti-PDHX (IP:10951-1-AP, 4ug; Detection:10951-1-AP 1:5000) with HEK-293 cells lysate 2000ug. This data was developed using the same antibody clone with 10951-1-PBS in a different storage buffer formulation.