

For Research Use Only

PDH E1 Alpha Polyclonal antibody

Catalog Number:18068-1-AP

Featured Product

74 Publications



Basic Information

Catalog Number:

18068-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12701

GenBank Accession Number:

BC002406

GeneID (NCBI):

5160

UNIPROT ID:

P08559

Full Name:

pyruvate dehydrogenase (lipoamide)

alpha 1

Calculated MW:

43 kDa

Observed MW:

39-48 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 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, chicken

Positive Controls:

WB: HeLa cells, HEK293 cells, mouse brain tissue, rat brain tissue, rat kidney tissue

IP: mouse kidney tissue,

IHC: human liver cancer tissue,

IF/ICC: HepG2 cells,

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

Background Information

PDHA1(Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial) is also named as PHE1A.It is one of the 3 enzymes of the pyruvate dehydrogenase complex which is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA(PMID:7853374).It has 4 isoforms produced by alternative splicing with the molecular mass of 39-48 kDa. Defects in PDHA1 are a cause of pyruvate dehydrogenase E1-alpha deficiency (PDHAD) and X-linked Leigh syndrome (X-LS).

Notable Publications

Author	Pubmed ID	Journal	Application
Fabao Liu	26309161	Oncotarget	WB,IHC
Xiao Meng Zhang	33062708	J Diabetes Res	WB
Teresa W-M Fan	36150727	J Immunol	

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

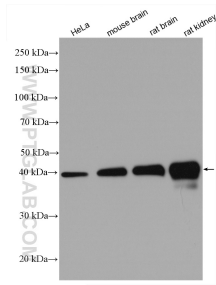
T: 4006900926

E: Proteintech-CN@ptglab.com

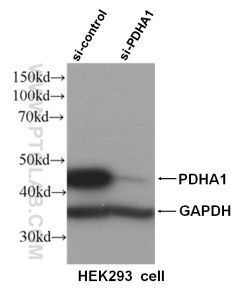
W: ptgcn.com

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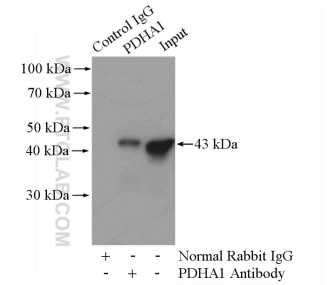
Selected Validation Data



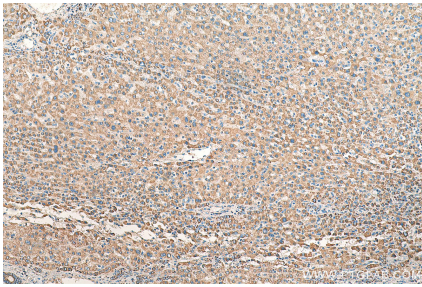
Various lysates were subjected to SDS PAGE followed by western blot with 18068-1-AP (PDH E1 Alpha antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



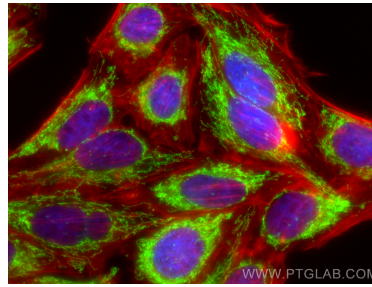
WB result of PDHA1 antibody (18068-1-AP, 1:1000) with si-control and si-PDHA1 transfected HEK293 cells.



IP result of anti-PDH E1 Alpha (IP:18068-1-AP, 4ug; Detection:18068-1-AP 1:1000) with mouse kidney tissue lysate 4400ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 18068-1-AP (PDH E1 Alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PDH E1 Alpha antibody (18068-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).