

For Research Use Only

PDXDC1 Polyclonal antibody

Catalog Number: 21021-1-AP

3 Publications



Basic Information

Catalog Number:

21021-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 393 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15283

GenBank Accession Number:

BC033748

GeneID (NCBI):

23042

UNIPROT ID:

Q6P996

Full Name:

pyridoxal-dependent decarboxylase domain containing 1

Calculated MW:

788 aa, 87 kDa

Observed MW:

87 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : HEK-293 cells, mouse testis tissue, HeLa cells, SGC-7901 cells, rat testis tissue

IP : HepG2 cells,

IHC : human hepatocirrhosis tissue, human testis tissue

IF/ICC : HepG2 cells, HeLa 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

PDXDC1 (pyridoxal-dependent decarboxylase domain containing 1) is a putative enzyme that could metabolize catecholamine neurotransmitters (PMID:28485732). With prior evidence for involvement with glioblastoma from other previously reported experimental settings, and contains the lead single nucleotide polymorphism (rs3198697) from the linkage analysis of the chromosome 16 region (PMID:32644145). Moreover, PDXDC1 is involved in the catalysis of the nonhydrolytic addition or removal of a carboxyl group to or from a compound (PMID:29277971).

Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Qian Song	35314877	J Mol Med (Berl)	IHC
Yanling Zhang	39414782	Nat Commun	WB
Jonas Weiß	37594630	Cell Mol Life Sci	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

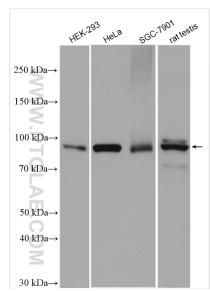
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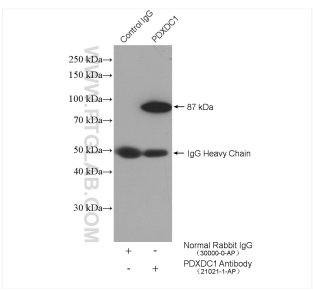
E: proteintech@ptglab.com
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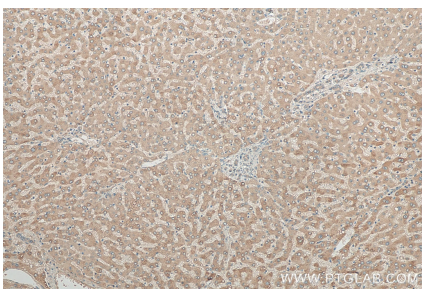
Selected Validation Data



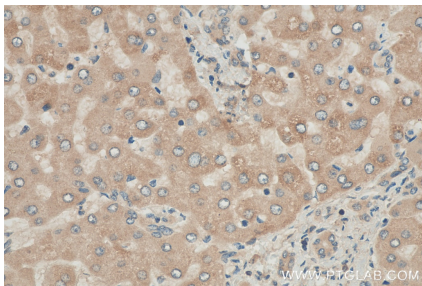
Various lysates were subjected to SDS PAGE followed by western blot with 21021-1-AP (PDXDC1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-PDXDC1 (IP:21021-1-AP, 4ug; Detection:21021-1-AP 1:500) with HepG2 cells lysate 1680 ug.



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 21021-1-AP (PDXDC1 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 PDXDC1 antibody (21021-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).

Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 21021-1-AP (PDXDC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).