

For Research Use Only

PDP1 Polyclonal antibody

Catalog Number: 21176-1-AP

7 Publications



Basic Information

Catalog Number:

21176-1-AP

Size:

150ul, Concentration: 300 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15453

GenBank Accession Number:

BC047619

GeneID (NCBI):

54704

UNIPROT ID:

Q9P011

Full Name:

protein phosphatase 2C, magnesium-dependent, catalytic subunit

Calculated MW:

537 aa, 61 kDa

Observed MW:

55-61 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB : PC-3 cells, mouse skeletal muscle tissue, mouse brain tissue, mouse heart tissue, mouse liver tissue

IP : mouse brain tissue,

IHC : human prostate cancer tissue, human thyroid cancer tissue, mouse skeletal muscle tissue

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

Pyruvate dehydrogenase phosphatase 1 (PDP1) is a key hormone-regulated metabolic enzyme that dephosphorylates and activates pyruvate dehydrogenase (PDH), thereby stimulating the conversion of pyruvate into acetyl-CoA (PMID: 36453802). PDP1 expression is regulated by FLT3-ITD in a context-dependent manner, and that it is centrally involved in the adaptation of AML glucose metabolism to the requirements of proliferation, survival and the therapeutic response to FLT3 inhibition (PMID: 37935978).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiao Meng Zhang	33062708	J Diabetes Res	WB
Yingying Shi	34489398	Cell Death Dis	WB
Jian-Sha Li	31346986	Curr Med 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

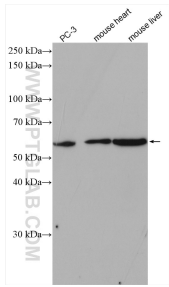
For technical support and original validation data for this product please contact:

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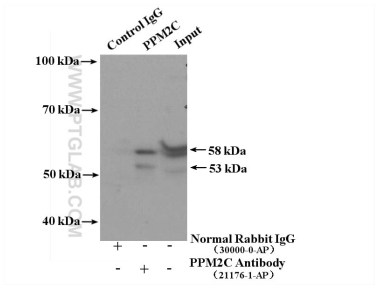
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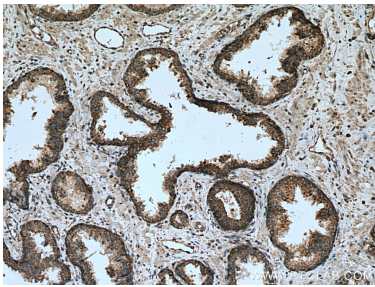
Selected Validation Data



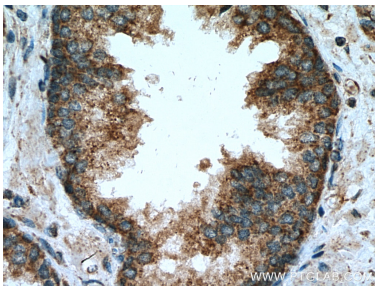
Various lysates were subjected to SDS PAGE followed by western blot with 21176-1-AP (PPM2C antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-PDP1 (IP:21176-1-AP, 4ug; Detection:21176-1-AP 1:300) with mouse brain tissue lysate 5200ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 21176-1-AP (PPM2C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 21176-1-AP (PPM2C antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).