For Research Use Only

PTPN1/PTP1B Polyclonal antibody

Catalog Number: 11334-1-AP

Featured Product

39 Publications



Basic Information

 Catalog Number:
 GenBank Accession Number:

 11334-1-AP
 BC015660

 Size:
 GeneID (NCBI):

 1000 ug/ml
 5770

 Source:
 UNIPROT ID:

 Rabbit
 P18031

 Isotype:
 Full Name:

IgG protein tyrosine phosphatase, non-Immunogen Catalog Number: receptor type 1

45-55 kDa

AG1878 Calculated MW: 435 aa, 50 kDa
Observed MW:

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity:

human, mouse, rat Cited Species:

human, mouse, rat, monkey

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: Sp2/0 cells, HeLa cells, mouse liver tissue, THP-1 cells, Jurkat cells, C6 cells, NIH/3T3 cells, rat liver

Purification Method:

WB 1:2000-1:10000

protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Antigen affinity purification

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

Recommended Dilutions:

tissue, mouse placenta tissue IP: A431 cells,

IHC: human prostate cancer tissue,

IF/ICC: BxPC-3 cells,

Background Information

PTPN1 (protein tyrosine phosphatase, non-receptor type 1) is also named as PTP1B or PTP-1B, and belongs to the protein-tyrosine phosphatase family and non-receptor class 1 subfamily. PTPN1 is involved in the regulation of several important physiological pathways, which regulates both INS and leptin signaling, and interacts with the epidermal-and platelet-derived growth factor receptors (PMID: 20101100). The gene might harbor variants influencing susceptibility to INS resistance and type 2 diabetes (PMID:15919813). The molecular mass of PTPN1 is 50 kDa, but sometimes some truncated forms can be detected as 48, 46, 39, 37 kDa due to non-specific proteolytic cleavage of PTP1B in different cells (PMID: 18253097).

Notable Publications

Author	Pubmed ID	Journal	Application
Shohei Takaoka	34646989	iScience	WB
Jianzhi Wu	34566665	Front Pharmacol	WB
Lei Yang	31711802	Toxicol Lett	WB

Storage

Storage

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

Storage Buffe

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

Aliquoting is unnecessary for -20°C storage

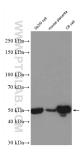
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

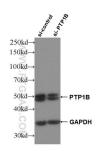
W: ptgcn.cor

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

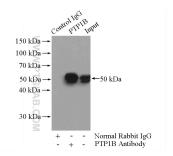
Selected Validation Data



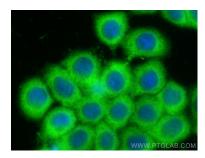
Sp2/O cells were subjected to SDS PAGE followed by western blot with 11334-1-AP (PTP1B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



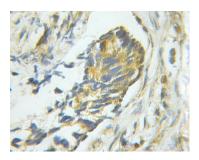
WB result of PTP1B antibody (11334-1-AP; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTP1B transfected Jurkat cells.



IP result of anti-PTP1B (IP:11334-1-AP, 4ug; Detection:11334-1-AP 1:500) with A431 cells lysate 2400ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed BxPC-3 cells using PTP1B antibody (11334-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunohistochemical analysis of paraffinembedded human prostate cancer using 11334-1-AP (PTP1B antibody) at dilution of 1:50 (under 10x lens).