

For Research Use Only

IA-2/PTPRN Polyclonal antibody

Catalog Number: 10584-1-AP **4 Publications**



Basic Information

Catalog Number: 10584-1-AP	GenBank Accession Number: BC007713	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 240 ug/ml by Nanodrop and 187 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5798	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: Q16849	
Isotype: IgG	Full Name: protein tyrosine phosphatase, receptor type, N	
Immunogen Catalog Number: AG0923	Calculated MW: 105 kDa	
	Observed MW: 60-65 kDa, 106-115 kDa	

Applications

Tested Applications: WB, IHC, IF-P, FC (Intra), IP, ELISA	Positive Controls: WB : mouse brain tissue, HEK-293 cells, mouse kidney tissue, rat brain tissue IP : mouse brain tissue, IHC : human pancreas cancer tissue, IF-P : mouse pancreas tissue,
Cited Applications: WB, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human	

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

IA-2/PTPRN is a member of the protein tyrosine phosphatase (PTP) family, which contains a transmembrane region, an intracellular PTP-like domain and an extracellular N-terminus. Experiments found that IA-2/PTPRN localizes to secretory granules and is exclusively expressed in neuroendocrine cells (including pancreatic islets cell). (PMID: 10027571). IA-2/PTPRN was found to be a major autoantigen in insulin-dependent diabetes mellitus and the detection of autoantibodies against IA-2/PTPRN is commonly used as a diabetes diagnosis marker.

Notable Publications

Author	Pubmed ID	Journal	Application
Chengfeng Merriman	31591269	J Biol Chem	WB
Felipe de Jesus Cortez	33186361	PLoS One	
Guangyan Zhangyuan	29742497	Cell Physiol Biochem	IHC

Storage

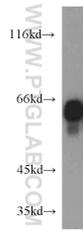
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

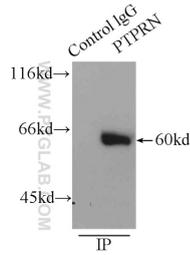
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

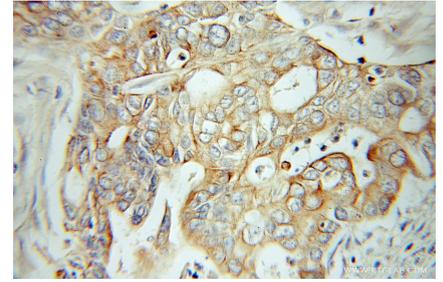
Selected Validation Data



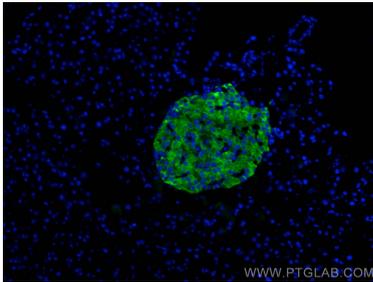
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10584-1-AP (IA-2/PTPRN antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



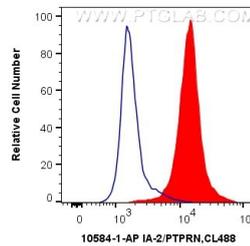
IP result of anti-IA-2/PTPRN (IP:10584-1-AP, 3ug; Detection:10584-1-AP 1:600) with mouse brain tissue lysate 7000ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 10584-1-AP (IA-2/PTPRN antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using IA-2/PTPRN antibody (10584-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



1X10⁶ HEK-293 cells were intracellularly stained with 0.4 ug Anti-Human IA-2/PTPRN (10584-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).