

For Research Use Only

IA-2/PTPRN Monoclonal antibody

Catalog Number: 66045-1-Ig



Basic Information

Catalog Number: 66045-1-Ig	GenBank Accession Number: BC007713	Purification Method: Protein A purification
Size: 150ul , Concentration: 2500 ug/ml by Nanodrop and 1480 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5798	CloneNo.: 1D3F5
Source: Mouse	UNIPROT ID: Q16849	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800 IF/ICC 1:10-1:100
Isotype: IgG3	Full Name: protein tyrosine phosphatase, receptor type, N	
Immunogen Catalog Number: AG17909	Calculated MW: 105 kDa	
	Observed MW: 60-65 kDa, 106-115 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, pig, rabbit	WB : pig brain tissue, human brain tissue, rabbit brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human pancreas cancer tissue, human brain tissue
	IF/ICC : HepG2 cells,

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). 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.

Storage

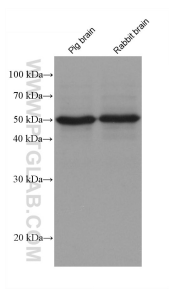
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

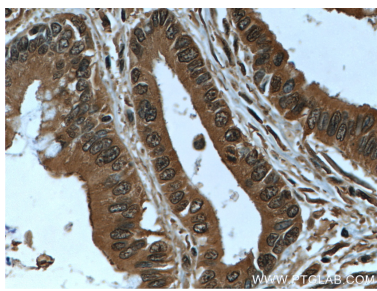
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

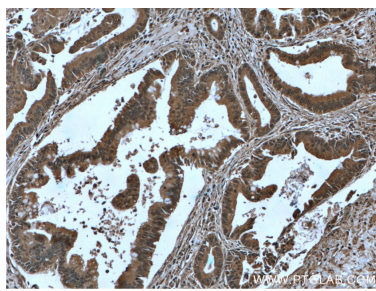
Selected Validation Data



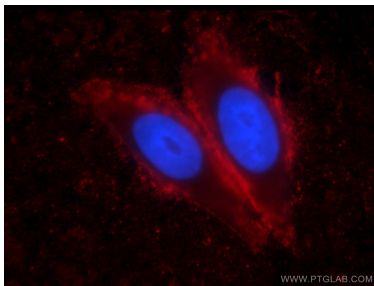
Various lysates were subjected to SDS PAGE followed by western blot with 66045-1-Ig (IA-2/PTPRN antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



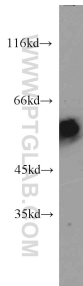
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66045-1-Ig (IA-2/PTPRN antibody at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 66045-1-Ig (IA-2/PTPRN antibody at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 66045-1-Ig (IA-2/PTPRN antibody) at dilution of 1:25 and Rhodamine-Goat anti-Mouse IgG.



human brain tissue were subjected to SDS PAGE followed by western blot with 66045-1-Ig (IA-2/PTPRN antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.