

IA-2/PTPRN Polyclonal Antibody

Catalog number: 10584-1-AP

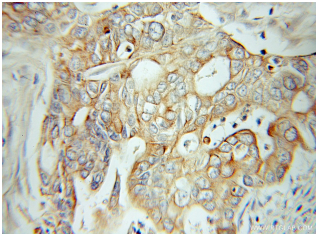
Size: 29 µg/150 µl

Source: Rabbit

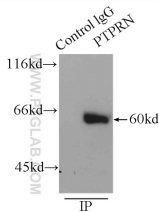
Isotype: IgG

Synonyms:

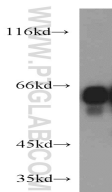
PTPRN; FLJ16131, IA 2, IA
2/PTP, IA2, ICA 512, ICA3,
ICA512, Islet cell antigen 512,
Islet cell autoantigen 3, PTP IA
2, PTPRN, R PTP N



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



IP Result of anti-PTPRN (IP:10584-1-AP, 3µg; Detection:10584-1-AP 1:600) with mouse brain tissue lysate 7000µg.



mouse brain tissue were subjected to SDS PAGE followed by western blot with 10584-1-AP (PTPRN antibody) at dilution of 1:300

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated IA-2/PTPRN MW:	105kd
Observed IA-2/PTPRN MW:	60-65kd, 106-115kd
Positive WB detected in	Mouse brain tissue, HEK-293 cells, mouse kidney tissue, rat brain tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human pancreas cancer tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0923
GenBank accession number:	BC007713
Gene ID (NCBI):	5798
Full name:	Protein tyrosine phosphatase, receptor type, N

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.