

Immunotag™ PTP IA-2β Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT3899
Product Description	Immunotag™ PTP IA-2β Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PTP IA-2β
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from PTP IA-2β, at AA range: 180-260
Specificity	PTP IA-2β Polyclonal Antibody detects endogenous levels of PTP IA-2β protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PTPRN2
Accession No.	Q92932 P80560 Q63475
Alternate Names	PTPRN2; KIAA0387; Receptor-type tyrosine-protein phosphatase N2; R-PTP-N2; Islet cell autoantigen-related protein; IAR; ICAAR; Phogrin

Antibody Specification

Description	protein tyrosine phosphatase, receptor type N2(PTPRN2) Homo sapiens This gene encodes a protein with sequence similarity to receptor-like protein tyrosine phosphatases. However, tyrosine phosphatase activity has not been experimentally validated for this protein. Studies of the rat ortholog suggest that the encoded protein may instead function as a phosphatidylinositol phosphatase with the ability to dephosphorylate phosphatidylinositol 3-phosphate and phosphatidylinositol 4,5-diphosphate, and this function may be involved in the regulation of insulin secretion. This protein has been identified as an autoantigen in insulin-dependent diabetes mellitus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015],
Cell Pathway/ Category	Type I diabetes mellitus,
Protein Expression	Amygdala,Brain,Fetal brain,Pancreas,
Subcellular Localization	endoplasmic reticulum lumen,integral component of plasma membrane,integral component of membrane,cell junction,secretory granule membrane,synaptic vesicle membrane,terminal bouton,receptor complex,
Protein Function	catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,disease:Autoantigen in insulin-dependent diabetes mellitus (IDDM).,domain:The cytoplasmic domain appears to contain the autoantigenic epitopes.,function:Implicated in development of nervous system and pancreatic endocrine cells.,PTM:Appears to undergo multiple proteolytic cleavage at consecutive basic residues.,similarity:Belongs to the protein-tyrosine phosphatase family. Receptor class 8 subfamily.,similarity:Contains 1 tyrosine-protein phosphatase domain.,tissue specificity:Highest levels in brain and pancreas. Lower levels in trachea, prostate, stomach and spinal chord.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.