

# Immunotag™ PTP IA-2beta Antibody

Antibody Specification	
Catalog No.	ITA2213
Product Description	Immunotag™ PTP IA-2beta Antibody
Size	100 µg, 200 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-2beta
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:1000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human PTP IA-2beta
Specificity	PTP IA-2beta Antibody detects endogenous levels of total PTP IA-2beta
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PTPRN2
Accession No.	Q92932
Alternate Names	IA 2beta; IA2beta; IAR; IAR/receptor like protein tyrosine phosphatase; ICAAR; Islet cell autoantigen related protein; Islet cell autoantigen-related protein; Phogrin; Protein tyrosine phosphatase receptor pi; Protein tyrosine phosphatase, receptor type, N polypeptide 2; PTPR2_HUMAN; Ptprn2; PTPRP; R PTP N2; R-PTP-N2; Receptor-type tyrosine-protein phosphatase N2; Tyrosine phosphatase IA 2 beta;

## Antibody Specification

Description	Plays a role in vesicle-mediated secretory processes. Required for normal accumulation of secretory vesicles in hippocampus, pituitary and pancreatic islets. Required for the accumulation of normal levels of insulin-containing vesicles and preventing their degradation. Plays a role in insulin secretion in response to glucose stimuli. Required for normal accumulation of the neurotransmitters norepinephrine, dopamine and serotonin in the brain. In females, but not in males, required for normal accumulation and secretion of pituitary hormones, such as luteinizing hormone (LH) and follicle-stimulating hormone (FSH) (By similarity). Required to maintain normal levels of renin expression and renin release (By similarity). May regulate catalytic active protein-tyrosine phosphatases such as PTPRA through dimerization (By similarity). Has phosphatidylinositol phosphatase activity; the PIPase activity is involved in its ability to regulate insulin secretion. Can dephosphorylate phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), phosphatidylinositol 5-phosphate and phosphatidylinositol 3-phosphate (By similarity). Regulates PI(4,5)P2 level in the plasma membrane and localization of cofilin at the plasma membrane and thus is indirectly involved in regulation of actin dynamics related to cell migration and metastasis; upon hydrolyzation of PI(4,5)P2 cofilin is released from the plasma membrane and acts in the cytoplasm in severing F-actin filaments (PubMed:26620550).
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	111kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.