

**Product Name: PTP IA-2 $\beta$  Rabbit Polyclonal Antibody**  
**Catalog #: APRab16664**



## Summary

<b>Production Name</b>	PTP IA-2 $\beta$ Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	PTPRN2
<b>Alternative Names</b>	PTPRN2; KIAA0387; Receptor-type tyrosine-protein phosphatase N2; R-PTP-N2; Islet cell autoantigen-related protein; IAR; ICAAR; Phogrin
<b>Gene ID</b>	5799.0
<b>SwissProt ID</b>	Q92932.The antiserum was produced against synthesized peptide derived from human PTPRN2. AA range:206-255

## Application

<b>Dilution Ratio</b>	WB 1:500-2000 ELISA 2000-20000
<b>Molecular Weight</b>	111kD

## Background

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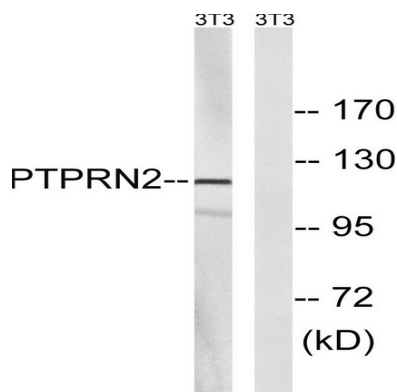


This gene encodes a protein with sequence similarity to receptor-like protein tyrosine phosphatases. However, tyrosine phosphatase activity has not been experimentally validated for this protein. Studies of the rat ortholog suggest that the encoded protein may instead function as a phosphatidylinositol 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],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.,

## Research Area

Type I diabetes mellitus;

## Image Data



Western blot analysis of lysates from NIH/3T3 cells, using PTPRN2 Antibody. The lane on the right is blocked with the synthesized peptide.

## Note

For research use only.