Datasheet for ABIN7601431

anti-PTPRN antibody (AA 35-569)

Go to Product page

Overview

Quantity:	100 µg
Target:	PTPRN
Binding Specificity:	AA 35-569
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPRN antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-IA-2/PTPRN Antibody Picoband®
Immunogen:	E.coli-derived human IA-2/PTPRN recombinant protein (Position: V35-H569). Human IA-2/PTPRN shares 79.5% amino acid (aa) sequence identity with rat IA-2/PTPRN.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-IA-2/PTPRN Antibody Picoband® (ABIN7601431). Tested in WB, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PTPRN
Alternative Name:	PTPRN (PTPRN Products)
Background:	Synonyms: PTPRN, ICA3, ICA512, Receptor-type tyrosine-protein phosphatase-like N, R-PTP-N, Islet cell antigen 512, ICA 512, Islet cell autoantigen 3, PTP IA-2 [Cleaved into: ICA512-N-terminal fragment, ICA512-NTF, ICA512-transmembrane fragment, ICA512-TMF, ICA512-cleaved cytosolic fragment, ICA512-CCF] Background: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.
Molecular Weight:	106 kDa
Gene ID:	5798
UniProt:	Q16849

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat ELISA, 0.1-0.5 µg/mL 1. Lan, M. S., Lu, J., Goto, Y., Notkins, A. L. Molecular cloning and identification of a receptor-type protein tyrosine phosphatase, IA-2, from human insulinoma. DNA Cell Biol. 13: 505-514, 1994. 2. Leiter, E. H., Tsumura, H., Serreze, D. V., Chapman, H. D., Rabin, D. U., Lan, M. S., Notkins, A. L. Mapping to chromosomes 1 and 12 of mouse homologs of human protein tyrosine phosphatase, receptor-type, related genes encoding pancreatic beta cell autoantigens. Mammalian Genome 8: 949-950, 1997. 3. Morahan, G., Huang, D., Yu, W.-P., Cui, L., DeAizpurua, H., Pallen, C. J. Localization of the genes encoding the type I diabetes autoantigens, protein-tyrosine phosphatases IA2 and IAR. Mammalian Genome 9: 593-594, 1998.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized

Handling

Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.