

AP53516PU-N**Polyclonal Antibody to PTPRN2 (N-term) - Aff - Purified**

Alternate names:	IA-2beta, IAR, ICAAR, Islet cell autoantigen-related protein, KIAA0387, Phogrin, R-PTP-N2, Receptor-type tyrosine-protein phosphatase N2
Quantity:	0.4 ml
Concentration:	lot specific
Background:	The protein encoded by the PTPRN2 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 intracellular catalytic domain, and thus represents a receptor-type PTP. The catalytic domain of this PTP is most closely related to PTPRN/IA-2beta. This PTP and PTPRN are both found to be major autoantigens associated with insulin-dependent diabetes mellitus. Three alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported.
Uniprot ID:	Q92932
NCBI:	NP_002838
GenelD:	5799
Host / Isotype:	Rabbit / Ig
Immunogen:	Synthetic peptide - KLH conjugated - corresponding to the N-terminal region (between 160-189aa) of human PTPRN2.
Format:	State: Liquid purified Ig fraction Purification: Purified through a Protein A column followed by peptide affinity purification Buffer System: PBS with 0.09% (W/V) Sodium azide
Applications:	Western blot: 1/100-1/500. Enzyme immunoassay: 1/1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes PTPRN2 at N-term.
Species Reactivity:	Tested: Human
Add. Information:	Molecular Weight: 111271 Da
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Bailey, S.D., et al. Diabetes Care 33(10): 2250-2253 (2010) Rose, J.E., et al. Mol. Med. 16 (7-8): 247-253 (2010) Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5): 800-812 (2010) Yoshida, T., et al. Int. J. Mol. Med. 25(4): 649-656 (2010)

Talmud, P.J., et al. Am. J. Hum. Genet. 85(5): 628-642 (2009)

Pictures:

Western blot analysis in A2058 cell line lysates (35ug/lane) using PTPRN2 antibody Cat.-No. AP53516PU-N. This demonstrates the PTPRN2 antibody detected the PTPRN2 protein (arrow).

