

Product datasheet for **TA356517**

TCPTP (PTPN2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PTPN2
Specificity:	Expected reactivity: Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Yeast, Zebrafish Homology: Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Yeast: 90%; Zebrafish: 93%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	39kDa
Gene Name:	protein tyrosine phosphatase, non-receptor type 2
Database Link:	NP_536348 Entrez Gene 5771 Human Q96AU5



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Background:

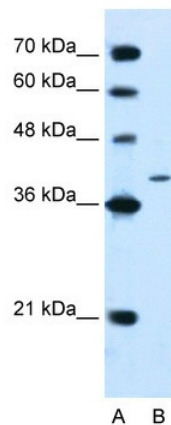
PTPN2 is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Three alternatively spliced variants of this gene, which encode isoforms differing at their extreme C-termini, have been described. The different C-termini are thought to determine the substrate specificity, as well as the cellular localization of the isoforms. Two highly related but distinctly processed pseudogenes that localize to distinct chromosomes have been reported.

Synonyms:

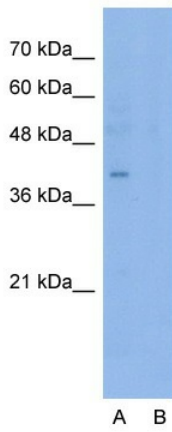
PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP

Protein Families:

Druggable Genome, Phosphatase, Transmembrane

Product images:

WB Suggested Anti-PTPN2 Antibody Titration:
2.5ug/ml
Positive Control: Jurkat cell lysate PTPN2 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells

**Anti-PTPN2 Western Blot & Peptide Block Validation**

Lot Number: QC15282
Lysate: Jurkat Cell

Lane A: Primary Antibody
Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 5.0µg/ml
Peptide Concentration: 2.0µg/ml
Lysate Quantity: 25µg/lane
Gel Concentration: 12%

Host: Rabbit

Target Name: PTPN2

Sample Type: Jurkat

Lane A: Primary Antibody

Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 5.0ug/mL

Peptide Concentration: 2.0ug/mL

Lysate Quantity: 25ug/lane

Gel Concentration: 12%