

Datasheet for ABIN3043447
anti-PTPN2 antibody (AA 1-330)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	PTPN2
Binding Specificity:	AA 1-330
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tyrosine-protein phosphatase non-receptor type 2(PTPN2) detection. Tested with WB, IHC-P in Human,Rat.
Immunogen:	E.coli-derived human TCPTP recombinant protein (Position: M1-C330). Human TCPTP shares 91.4% and 92% amino acid (aa) sequence identity with mouse and rat TCPTP, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Tyrosine-protein phosphatase non-receptor type 2(PTPN2) detection. Tested with WB, IHC-P in Human,Rat.</p> <p>Gene Name: protein tyrosine phosphatase, non-receptor type 2</p> <p>Protein Name: Tyrosine-protein phosphatase non-receptor type 2</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	PTPN2
Alternative Name:	PTPN2 (PTPN2 Products)
Background:	<p>TCPTP is also called as PTPN2. 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. Multiple alternatively spliced transcript variants encoding different isoforms have been found. Two highly related but distinctly processed pseudogenes that localize to chromosomes 1 and 13, respectively, have been reported.</p> <p>Synonyms: Protein tyrosine phosphatase non receptor type 2 antibody PTN2 antibody PTN2_HUMAN antibody PTPN 2 antibody PTPN2 antibody PTPT antibody T cell protein tyrosine phosphatase antibody T-cell protein-tyrosine phosphatase antibody TC PTP antibody TCELLPTP antibody TCPTP antibody Tyrosine protein phosphatase non receptor type 2 antibody Tyrosine-protein phosphatase non-receptor type 2 antibody</p>
Gene ID:	5771
UniProt:	P17706
Pathways:	EGFR Signaling Pathway , Carbohydrate Homeostasis , Regulation of Carbohydrate Metabolic Process , Platelet-derived growth Factor Receptor Signaling

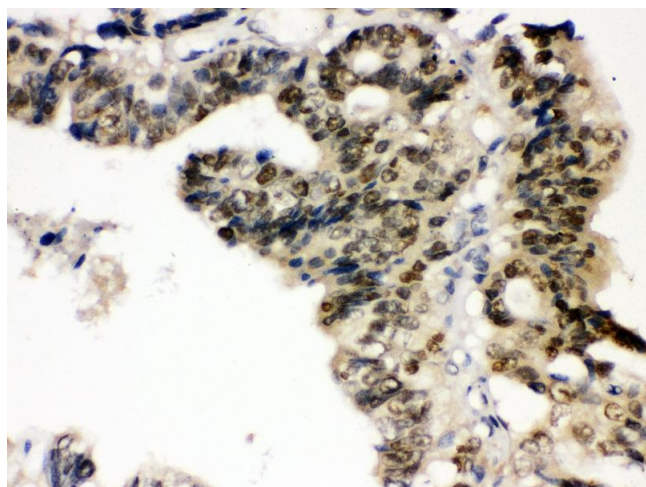
Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

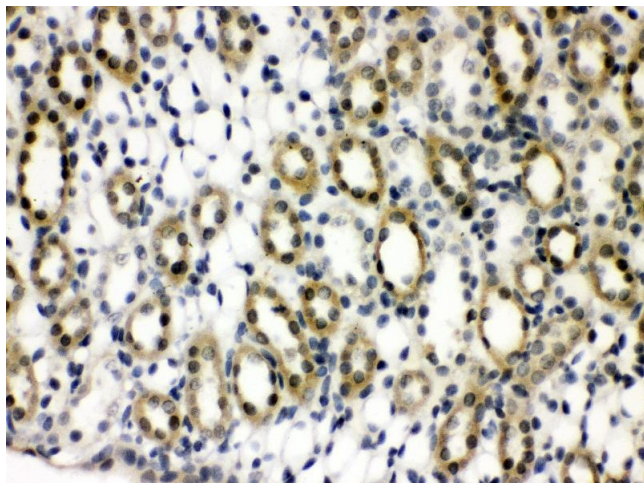
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



Immunohistochemistry

Image 1. Anti- TCPTP Picoband antibody,IHC(P) IHC(P):
Human Intestinal Cancer Tissue



Immunohistochemistry

Image 2. Anti- TCPTP Picoband antibody,IHC(P) IHC(P): Rat Kidney Tissue



Western Blotting

Image 3. Anti- TCPTP Picoband antibody, Western blotting
All lanes: Anti TCPTP at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug
Predicted bind size: 48KD Observed bind size: 48KD