

## Rabbit anti-Human TCPTP/PTPN2 Polyclonal Antibody | anti-PTPN2 antibody

Anti-TCPTP/PTPN2 Antibody Picoband

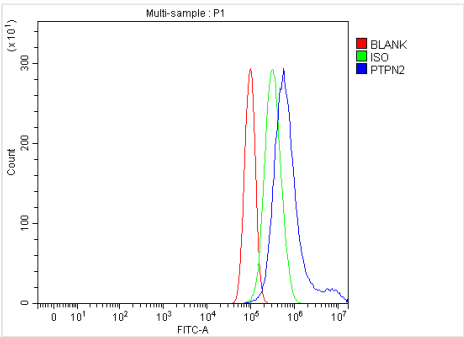
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA126155 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

TCPTP/PTPN2; Polyclonal Antibody; Anti-TCPTP/PTPN2 Antibody Picoband; anti-PTPN2 antibody

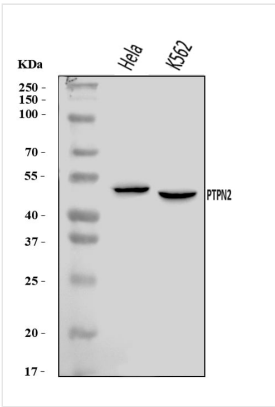
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                       |
| Reactivity                                      | Human                                                                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                   |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                   |
| Specificity                                     | Natural and recombinant Mouse Ccl17                                                                                                                                                                                          |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                 |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                     |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                    |
| Applicable Applications for anti-PTPN2 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                          |
| Assay Type                                      | Sandwich                                                                                                                                                                                                                     |
| Samples                                         | Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)                                                                                                                                                    |
| Detection Range                                 | 31.2 pg/ml - 2,000 pg/ml                                                                                                                                                                                                     |
| Sensitivity                                     | <10 pg/ml                                                                                                                                                                                                                    |
| Intra-assay Precision                           | Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.                                                                            |
| Inter-assay Precision                           | Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.                                                                        |
| Preparation and Storage                         | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of PC-3 cells using anti-TCPTP/PTPN2 antibody (AAA126155).Overlay histogram showing PC-3 cells stained with AAA126155 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TCPTP/PTPN2 Antibody (AAA126155, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of TCPTP/PTPN2 using anti-TCPTP/PTPN2 antibody (AAA126155).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human K562 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TCPTP/PTPN2 antigen affinity purified polyclonal antibody (#AAA126155) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TCPTP/PTPN2 at approximately 48 kDa. The expected band size for TCPTP/PTPN2 is at 48 kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PTPN2 antibody | <p>Background: Chemokine(C-C motif) ligand 17(CCL17) is a small cytokine belonging to the CC chemokine family that is also known as thymus and activation regulated chemokine(TARC). CCL17 is expressed constitutively in thymus, but only transiently in phytohemagglutinin-stimulated peripheral blood mononuclear cells.1 This chemokine specifically binds and induces chemotaxis in T cells and elicits its effects by interacting with the chemokine receptor CCR4.1,2The gene for CCL17 is located on chromosome 16, in humans, along with other chemokines called CCL22 and CX3CL1.3,4 The standard used in this kit is recombinant human CCL17, consisting of 71 amino acids with the molecular weight of 8Kda.</p> <p>Principle of the Assay: The Quick Picokine™ Mouse Ccl17 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Ccl17 in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Mouse Ccl17 with immunogen: Expression system for standard: E.coli; Immunogen sequence: A24-P93. To measure Mouse Ccl17, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Mouse Ccl17 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Ccl17 in the sample.</p> |
| Product Categories/Family for anti-PTPN2 antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                     |                                                |
|---------------------|------------------------------------------------|
| NCBI GI #           | 229462762                                      |
| NCBI GeneID         | 5771                                           |
| UniProt Accession # | P17706; Q96AU5; Q96HR2; A8K955; A8MXU3; K7ENG3 |

|                                         |                                                                                       |
|-----------------------------------------|---------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>                 | 415                                                                                   |
| <b>NCBI Official Full Name</b>          | Tyrosine-protein phosphatase non-receptor type 2                                      |
| <b>NCBI Official Synonym Full Names</b> | protein tyrosine phosphatase, non-receptor type 2                                     |
| <b>NCBI Official Symbol</b>             | PTPN2                                                                                 |
| <b>NCBI Official Synonym Symbols</b>    | PTN2; PTPT; TCPTP; TC-PTP; TCELLPTP                                                   |
| <b>NCBI Protein Information</b>         | tyrosine-protein phosphatase non-receptor type 2; T-cell protein tyrosine phosphatase |
| <b>UniProt Protein Name</b>             | Tyrosine-protein phosphatase non-receptor type 2                                      |
| <b>UniProt Gene Name</b>                | <b>PTPN2</b>                                                                          |
| <b>UniProt Synonym Gene Names</b>       | PTPT; TCPTP                                                                           |
| <b>UniProt Entry Name</b>               | PTN2_HUMAN                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/tcftp-ptpn2-antibody-flow-cytometry-western-blot-elisa/126155>