

## Basic Information

|                    |                                                                           |                                     |
|--------------------|---------------------------------------------------------------------------|-------------------------------------|
| Product Name       | Anti-PTPN6 Antibody                                                       |                                     |
| Gene Name          | PTPN6                                                                     |                                     |
| Source             | Rabbit                                                                    |                                     |
| Isotype            | IgG                                                                       |                                     |
| Species Reactivity | human, mouse                                                              |                                     |
| Tested Application | WB, ICC/IF, FCM, ELISA                                                    |                                     |
| Contents           | 500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.     |                                     |
| Immunogen          | E.coli-derived human SHP1/PTPN6 recombinant protein (Position: E67-K572). |                                     |
| concentration      | 500 ug/ml                                                                 |                                     |
| Purification       | Immunogen affinity purified.                                              |                                     |
| Observed MW        | 68KD                                                                      |                                     |
| Dilution Ratios    | Western blot(WB):                                                         | 1:500-2000                          |
|                    | Immunocytochemistry/Immunofluorescence (ICC/IF):                          | 1:50-400                            |
|                    | Flow cytometry (FCM):                                                     | 1-3 $\mu$ g/1x10 <sup>6</sup> cells |
|                    | ELISA:                                                                    | 1:100-1000                          |

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Tyrosine-protein phosphatase non-receptor type 6, also known as Src homology region 2 domain-containing phosphatase-1 (SHP-1), is an enzyme that in humans is encoded by the PTPN6 gene. 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. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported.

## Selected Validation Data

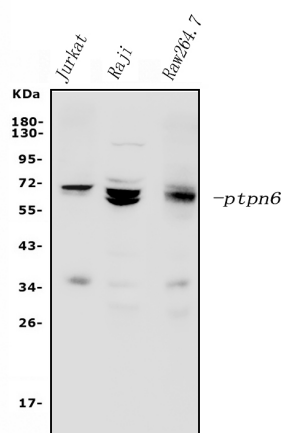


Figure 1. Western blot analysis of anti- PTPN6 antibody (A00938-3).The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: Human Jurkat whole cell lysates,Lane 2: Human Raji whole cell lysates,Lane 3: Mouse RAW264.7 whole cell lysates,Use rabbit anti- PTPN6 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for PTPN6 at approximately 68KD. The expected band size for PTPN6 is at 68KD.