

## Mouse SHP1/PTPN6 Monoclonal Antibody | anti-PTPN6 antibody

Anti-SHP1/PTPN6 Antibody Picoband (monoclonal, 8H11B10)

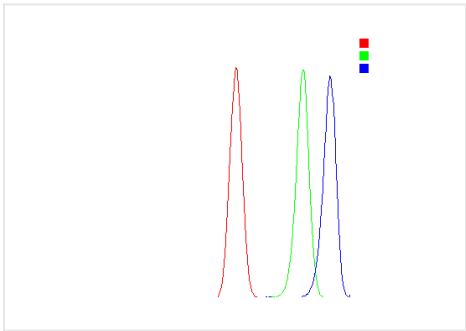
| CATALOG # | HOST  | REACTIVITY        | APPLICATIONS                                                                                                  |
|-----------|-------|-------------------|---------------------------------------------------------------------------------------------------------------|
| AAA19675  | Mouse | Human, Mouse, Rat | Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

SHP1/PTPN6; Monoclonal Antibody; Anti-SHP1/PTPN6 Antibody Picoband (monoclonal; 8H11B10); anti-PTPN6 antibody

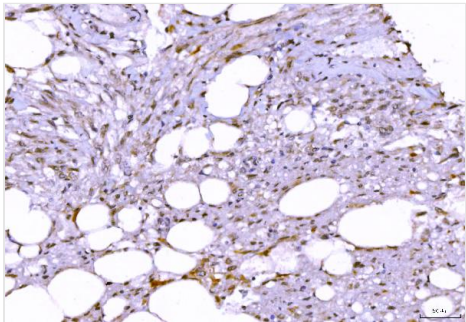
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                              |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                         | Mouse IgG2b                                                                                                                                                                                                                                                                                                                                                        |
| Clone Number                                    | 8H11B10                                                                                                                                                                                                                                                                                                                                                            |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                       |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 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-PTPN6 antibody | FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                                                                                                                       |
| Application Notes                               | WB: 0.25-0.5 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human<br>ICC/IF: 5 ug/ml, Human<br>FC/FACS: 1-3 ug/1x10 <sup>6</sup> cells, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Mouse IgG for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit for IHC(P) and ICC. |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                          |
| Immunogen                                       | E Coli-derived human SHP1/PTPN6 recombinant protein (Position: E67-K572).                                                                                                                                                                                                                                                                                          |
| 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.                                                                                                                                       |



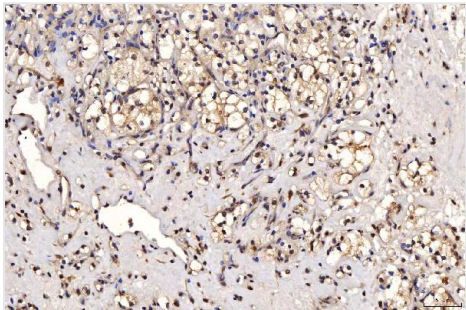
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of Caco-2 cells using anti-SHP1/PTPN6 antibody (AAA19675). Overlay histogram showing Caco-2 cells stained with AAA19675 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-SHP1/PTPN6 Antibody (AAA19675, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



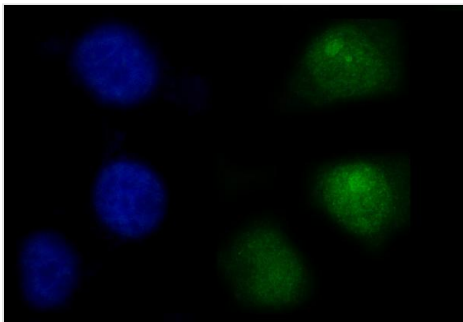
IHC (Immunohistochemistry)

Figure 5. IHC analysis of SHP1/PTPN6 using anti-SHP1/PTPN6 antibody (AAA19675).SHP1/PTPN6 was detected in a paraffin-embedded section of human SM fatty carcinoma of the left kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-SHP1/PTPN6 Antibody (AAA19675) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



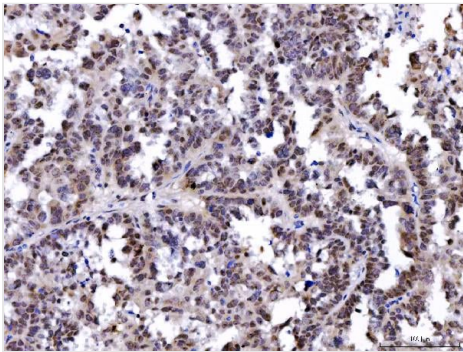
IHC (Immunohistochemistry)

Figure 3. IHC analysis of SHP1/PTPN6 using anti-SHP1/PTPN6 antibody (AAA19675).SHP1/PTPN6 was detected in a paraffin-embedded section of human renal clear cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-SHP1/PTPN6 Antibody (AAA19675) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



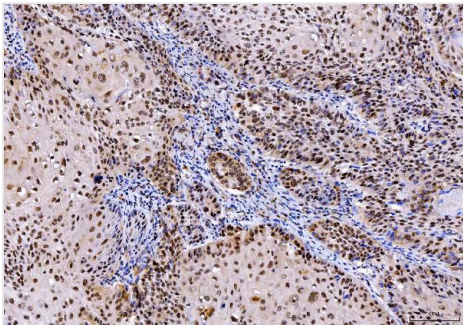
IF (Immunofluorescence)

Figure 5. IF analysis of SHP1/PTPN6 using anti-SHP1/PTPN6 antibody (AAA19675).SHP1/PTPN6 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-SHP1/PTPN6 Antibody (AAA19675) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of SHP1/PTPN6 using anti-SHP1/PTPN6 antibody (AAA19675).SHP1/PTPN6 was detected in a paraffin-embedded section of human serous adenocarcinoma of ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-SHP1/PTPN6 Antibody (AAA19675) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SHP1/PTPN6 using anti-SHP1/PTPN6 antibody (AAA19675).SHP1/PTPN6 was detected in a paraffin-embedded section of human laryngeal squamous cell carcinomas tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-SHP1/PTPN6 Antibody (AAA19675) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PTPN6 antibody | 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. |
| Product Categories/Family for anti-PTPN6 antibody   | Primary Antibodies, Mouse Monoclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 18104989                                                                                                                                                                                               |
| NCBI GeneID                      | 5777                                                                                                                                                                                                   |
| NCBI Accession #                 | NP_002822.2                                                                                                                                                                                            |
| NCBI GenBank Nucleotide #        | NM_002831.5                                                                                                                                                                                            |
| UniProt Accession #              | P29350; Q969V8; Q9UK67; A8K306; G3V0F8                                                                                                                                                                 |
| Molecular Weight                 | 67,561 Da                                                                                                                                                                                              |
| NCBI Official Full Name          | tyrosine-protein phosphatase non-receptor type 6 isoform 1                                                                                                                                             |
| NCBI Official Synonym Full Names | protein tyrosine phosphatase, non-receptor type 6                                                                                                                                                      |
| NCBI Official Symbol             | PTPN6                                                                                                                                                                                                  |
| NCBI Official Synonym Symbols    | HCP; HCPH; SHP1; SHP-1; HPTP1C; PTP-1C; SHP-1L; SH-PTP1                                                                                                                                                |
| NCBI Protein Information         | tyrosine-protein phosphatase non-receptor type 6; hematopoietic cell phosphatase; protein-tyrosine phosphatase 1C; protein-tyrosine phosphatase SHP-1; hematopoietic cell protein-tyrosine phosphatase |
| UniProt Protein Name             | Tyrosine-protein phosphatase non-receptor type 6                                                                                                                                                       |
| UniProt Gene Name                | PTPN6                                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | HCP; PTP1C; PTP-1C                                                                                                                                                                                     |
| UniProt Entry Name               | PTN6_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://stage.aaabiotech.com/monoclonal/shp1-ptpn6-antibody-clone-8h11b10-flow-cytometry-immunofluorescence-immunohistochemistry-immunocytochemistry-western-blot-elisa/19675>