

Datasheet for ABIN7659401  
**anti-SHP1 antibody (CF®647)**



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## Overview

|              |                                            |
|--------------|--------------------------------------------|
| Quantity:    | 100 µL                                     |
| Target:      | SHP1 (PTPN6)                               |
| Reactivity:  | Human                                      |
| Host:        | Mouse                                      |
| Clonality:   | Monoclonal                                 |
| Conjugate:   | This SHP1 antibody is conjugated to CF®647 |
| Application: | Please inquire                             |

## Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Protein Tyrosine Phosphatase, non-receptor type 6(CPTC-PTPN6-2), CF647 conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen:       | Recombinant human full-length PTPN6 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clone:           | CPTC-PTPN6-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype:         | IgG2a, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Characteristics: | <p>PTPN6, which is also designated as SHP-1, is expressed primarily in hematopoietic cells and characterized by the presence of two SH2 domains N-terminal to the PTP domain. It maps to 12p13, a region commonly involved in leukemia-associated chromosomal abnormalities. SHP-1 plays a role in modulating intracellular signaling for various molecules. In T-cell lymphomas and other malignancies, SHP-1 phosphatase expression is lost, by a thus far undetermined mechanism. Preliminary studies suggest that it may be helpful in differentiating mantle/marginal zone lymphomas (SHP-1 ) from follicular lymphomas (SHP-1 negative).</p> <p>Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other</p> |

## Product Details

labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | SHP1 (PTPN6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alternative Name: | Protein Tyrosine Phosphatase, non-receptor type 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Background:       | Synonyms: PTPN6, SHP1, protein tyrosine phosphatase, non-receptor type 6, HCP, HCPH, HPTP1C, PTP-1C, SH-PTP1, SHP-1, SHP-1L, 70 kda SHP-1L protein, hematopoietic cell phosphatase, hematopoietic cell protein-tyrosine phosphatase, protein-tyrosine phosphatase 1C, PTPN6 / SHP<br>Gene Symbol: PTPN6                                                                                                                                                                                                                                                          |
| Molecular Weight: | 65 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene ID:          | 5777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UniProt:          | <a href="#">P29350</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pathways:         | <a href="#">JAK-STAT Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Nuclear Receptor Transcription Pathway</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Steroid Hormone Mediated Signaling Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">BCR Signaling</a> |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | For coating for ELISA, order Ab without BSA. Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Optimal dilution and staining procedure for a specific application should be determined by user. Recommended starting concentrations for titration are 1-2 µg/mL for most applications, or 1 µg/million cells/100 µL for flow cytometry |
| Comment:           | Positive Control: A431, Jurkat or K562 cell lysates, Lymph node or spleen.                                                                                                                                                                                                                                                                                                                                                            |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Handling

|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                               |
| Concentration:     | 0.1 mg/mL                                                                                                                            |
| Buffer:            | PBS, 0.1 % BSA, 0.05 % 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:   | Protect from light                                                                                                                   |
| Storage:           | 4 °C                                                                                                                                 |
| Storage Comment:   | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |