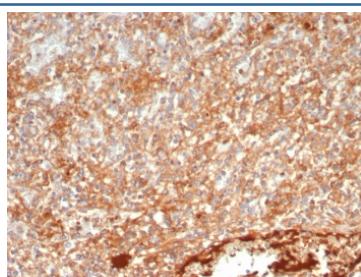


## PTPN6 Antibody / SHP-1 / PTP1C [clone PTPN6/7543] (V4251)

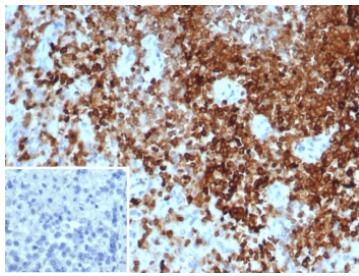
| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V4251-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4251-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4251SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

**Bulk quote request**

|                           |   |
|---------------------------|---|
| <b>Availability</b>       | 1-3 business days   |
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Host</b>               | Mouse   |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                   |
| <b>Isotype</b>            | Mouse IgG1, kappa   |
| <b>Clone Name</b>         | PTPN6/7543  |
| <b>Purity</b>             | Protein A/G affinity  |
| <b>UniProt</b>            | P29350  |
| <b>Localization</b>       | Cytoplasm, Nucleus  |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT |
| <b>Limitations</b>        | This PTPN6 antibody is available for research use only.     |



IHC staining of FFPE human spleen tissue with PTPN6 antibody (clone PTPN6/7543).  
 HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human spleen tissue with PTPN6 antibody (clone PTPN6/7543). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

## Description

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).

## Application Notes

Optimal dilution of the SHP-1 antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 395-595) from the human protein was used as the immunogen for the PTPN6 antibody.

## Storage

Aliquot the SHP-1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.