

# Anti-SHP2 PTPN11 Rabbit Monoclonal Antibody

Catalog # ABO13430

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IP                                                                                                                    |
| <b>Primary Accession</b> | <a href="#">Q06124</a>                                                                                                    |
| <b>Host</b>              | Rabbit                                                                                                                    |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                         |
| <b>Clonality</b>         | Monoclonal                                                                                                                |
| <b>Format</b>            | Liquid                                                                                                                    |
| <b>Description</b>       | Anti-SHP2 PTPN11 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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| <b>Gene ID</b>                  | 5781                                                                                                                                                                                                |
| <b>Other Names</b>              | Tyrosine-protein phosphatase non-receptor type 11, 3.1.3.48, Protein-tyrosine phosphatase 1D, PTP-1D, Protein-tyrosine phosphatase 2C, PTP-2C, SH-PTP2, SHP-2, Shp2, SH-PTP3, PTPN11, PTP2C, SHPTP2 |
| <b>Calculated MW</b>            | 68011                                                                                                                                                                                               |
| <b>Application Details</b>      | WB 1:500-1:1000<br>IP 1:20                                                                                                                                                                          |
| <b>Subcellular Localization</b> | Cytoplasm.                                                                                                                                                                                          |
| <b>Tissue Specificity</b>       | Widely expressed, with highest levels in heart, brain, and skeletal muscle..                                                                                                                        |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                           |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                 |
| <b>Clone Names</b>              | Clone: GBO-16                                                                                                                                                                                       |
| <b>Immunogen</b>                | A synthesized peptide derived from human SHP2                                                                                                                                                       |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                                                                             |
| <b>Storage</b>                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                          |

## Protein Information

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|-------------|--------|
| <b>Name</b> | PTPN11 |
|-------------|--------|

## Synonyms

PTP2C, SHPTP2

## Function

Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed:[10655584](#), PubMed:[14739280](#), PubMed:[18559669](#), PubMed:[18829466](#), PubMed:[26742426](#), PubMed:[28074573](#), PubMed:[32184441](#)). Positively regulates MAPK signal transduction pathway (PubMed:[28074573](#)). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:[28074573](#)). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed:[18559669](#)). Dephosphorylates CDC73 (PubMed:[26742426](#)). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L (PubMed:[19275884](#)). Acts as an effector of PDCD1-mediated inhibition of T-cell response: recruited by phosphorylated PDCD1, mediating dephosphorylation of key T-cell receptor (TCR) proximal signaling molecules, leading to TCR signaling inhibition (PubMed:[32184441](#)).

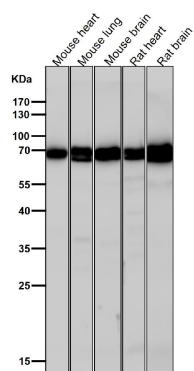
## Cellular Location

Cytoplasm. Nucleus

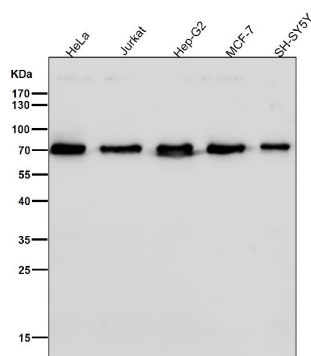
## Tissue Location

Widely expressed, with highest levels in heart, brain, and skeletal muscle.

## Images

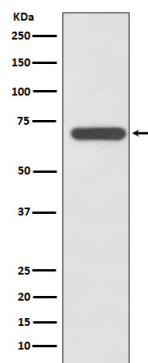


All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.

Western blot analysis of SHP2 expression in A431 cell lysate.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.