

# KD-Validated Anti-PTPN11 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1275

## Product Information

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Application</b>       | WB, FC, ICC                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Primary Accession</b> | <a href="#">Q06124</a>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reactivity</b>        | Human                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clone Names</b>       | 23GB2665                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Calculated MW</b>     | 68011                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>         | PTPN11                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Aliases</b>           | PTPN11; Protein Tyrosine Phosphatase Non-Receptor Type 11; SH-PTP2; PTP2C; BTPP3; SHP-2; SHP2; SH2 Domain-Containing Protein Tyrosine Phosphatase 2; Tyrosine-Protein Phosphatase Non-Receptor Type 11; Protein-Tyrosine Phosphatase 1D; Protein-Tyrosine Phosphatase 2C; EC 3.1.3.48; SH-PTP3; PTP-1D; NS1; Protein Tyrosine Phosphatase, Non-Receptor Type 11; Noonan Syndrome 1; METCDS; SHPTP2; PTP-2C; JMML; Shp2; CFC |
| <b>Immunogen</b>         | A synthesized peptide derived from human SHP2                                                                                                                                                                                                                                                                                                                                                                               |

## 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 |

## Protein Information

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| <b>Name</b>     | PTPN11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b> | PTP2C, SHPTP2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Function</b> | Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed: <a href="#">10655584</a> , PubMed: <a href="#">14739280</a> , PubMed: <a href="#">18559669</a> , PubMed: <a href="#">18829466</a> , PubMed: <a href="#">26742426</a> , PubMed: <a href="#">28074573</a> , PubMed: <a href="#">32184441</a> ). Positively regulates MAPK signal transduction pathway (PubMed: <a href="#">28074573</a> ). Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed: <a href="#">28074573</a> ). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed: <a href="#">18559669</a> ). Dephosphorylates CDC73 (PubMed: <a href="#">26742426</a> ). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L (PubMed: <a href="#">19275884</a> ). 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.

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