

## Product datasheet for **TA321537S**

### **SHP2 (PTPN11) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 200-1000 WB positive control: NIH/3T3 cells
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 250 amino acids of human protein tyrosine phosphatase, non-receptor type 11 protein tyrosine phosphatase, non-receptor type 11
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68 kDa
Gene Name:	protein tyrosine phosphatase, non-receptor type 11
Database Link:	<a href="#">NP_002825</a> <a href="#">Entrez Gene 19247 Mouse</a> <a href="#">Entrez Gene 25622 Rat</a> <a href="#">Entrez Gene 5781 Human</a> <a href="#">Q06124</a>



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**Background:**

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. This PTP contains two tandem Src homology-2 domains; which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions; such as mitogenic activation; metabolic control; transcription regulation; and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. Two transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

BPTP3; CFC; JMML; METCDS; NS1; PTP-1D; PTP2C; SH-PTP2; SH-PTP3; SHP2

**Protein Families:**

Druggable Genome, Phosphatase

**Protein Pathways:**

Adipocytokine signaling pathway, Chronic myeloid leukemia, Epithelial cell signaling in Helicobacter pylori infection, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Renal cell carcinoma

**Product images:**

Gel: 10%SDS-PAGE  
Lysate: 40 µg  
Lane: NIH/3T3 cells  
Primary antibody: [TA321537] (PTPN11 Antibody) at dilution 1/300  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 1 minute