

**Recombinant Mouse SHP2 / PTPN11 Protein (His tag)**

**Cat.NO.: TP07601**

3th Edition

**Synonyms:**2700084A17Rik;AW536184;PTP1D;PTP2C;SAP-2;SH-PTP2;SH-PTP3;SHP-2;Shp2;Syp

**Description:**SHP2, also known as PTPN11, belongs to the protein-tyrosine phosphatase(PTP) family, non-receptor class 2 subfamily. PTPs catalyze the removal of phosphate groups from tyrosine residues by the hydrolysis of phosphoric acid monoesters. They dephosphorylate EGFR, JAK2 and TYK2 kinases, promoting oncogenic transformation. SHP2 is widely expressed, with highest levels in heart, brain, and skeletal muscle. SHP2 acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. It also dephosphorylates ROCK2 at Tyr-722 resulting in stimulation of its RhoA binding activity.

**Form:**PBS

**Molecular Weight:**69.5 kDa

**Sequences:**Met1-Arg593

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.