

## PTPN11

### Recombinant Human SHP-2 (aa 224-529) GST

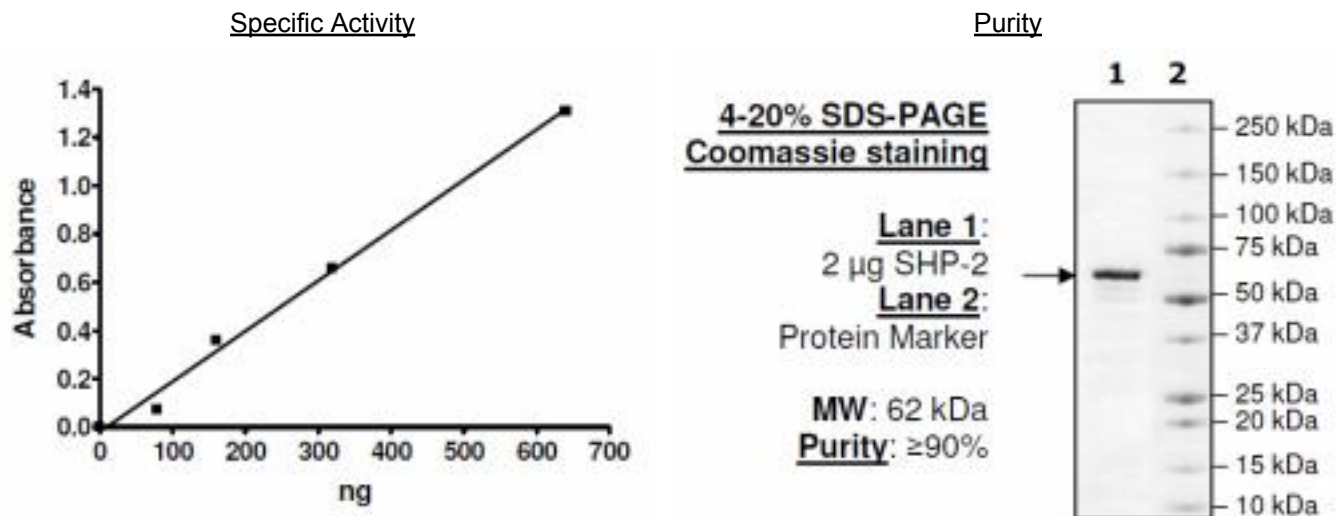
<b>Catalog No.</b>	PTP022A	<b>Quantity:</b>	20 µg
<b>Alternate Names:</b>	BTP3, CFC, NS1, PTP-1D, PTP2C, SH-PTP2, SH-PTP3, SHP2		
<b>Description:</b>	<p>Recombinant Human SHP-2 Catalytic domain (aa 224-529) with N-terminal GST Tag. Mammalian PTPases can be subdivided into 1 of 2 broad categories: transmembrane receptor PTPases and intracellular PTPases. PTPN11 is one of the 2 closely related mammalian intracellular PTPases whose sequences encode 2 tandem SRC homology 2 (SH2) domains that are located at the amino-terminal side of a single PTPase catalytic domain. 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.</p>		
<b>Concentration:</b>	0.73 mg/ml		
<b>Gene ID:</b>	5781		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	62 kDa		
<b>Formulation:</b>	Liquid in 25 mM Tris-HCl, pH 8.0, + 150 mM NaCl + 0.05% Tween-20 + 50% Glycerol + 2 mM EDTA + 1 mM DTT + 10 mM Glutathione.		
<b>Purity:</b>	>90% by SDS-PAGE		
<b>Specific Activity:</b>	10 U/µg		
<b>Amino Acid Sequence:</b>	<p><b>MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYI DGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSRIAYSKDFETL KVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPK LVCFKKRIEAIQIDKYLKSSKYIAWPLQGQWQATFGGGDHPKSDLVPRGSASAEIESR VRELSKLAETTDKVKQGFWEFETLQQQECKLLYSRKEGQRQENKNKNRYKNILPFDH TRVVLHDGDPNEPVSDYINANIIMPEFETKCNNSKPKSYIATQGCLQNTVNDWFWRMVF QENSRVIVMTTKEVERGKSKCVKYWPDEYALKEYGVMRVRNVKESAAHDYTLRELKLS KVGQGNTERTVWQYHFRTWPDHGVPSDPGGVLDLFEEVHHKQESIMDAGPVVVHCS AGIGRTGTFIVIDILIDIIREKGVDCDIDVPKTIQMVRSQRSGMVQTEAQYRFIYMAVQHYI ETLQRRILE</b></p>		
<b>Unit Definition:</b>	One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30°C.		



**Assay Conditions:** Assay buffer: 50 mM HEPES, pH 7.4 + 2 mM EDTA + 3 mM DTT + 100 mM NaCl + 50 mM pNPP substrate. Incubate for 20 minutes at 30°C. Absorbance is measured at 405 nM.

**Storage & Stability:** Product is stable for greater than 6 months at -80°C. **Avoid repeated freeze-thaw cycles.**

**Applications:** Useful for the study of enzyme kinetics, screening inhibitors and selectivity profiling.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

