



# Recombinant Rat Tyrosine-protein phosphatase non-receptor type 6 (Ptpn6)

<b>Product Code</b>	CSB-EP019043RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P81718
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MLSRGWFHRD LSGPDAETLL KGRGVPGSFL ARPSRKNQGD  FSLSVRVDDQ VTHIRIQNSG DFYDLYGGEK FATSTELVEY YTQQQGILQD  RDGTIIHLKY PLNCSDPTSE RWYHGHMSGG QAESLLQAKG EPWTFVLVRES  LSQPGDFVLS VLNDQPKAAP GSPLRVTHIK VMCEGGRYTV GGSETFDSL  DLVEHFKKTG IEEASGAFVY LRQPYYATRV NAADIENRVL ELNKKQESD  TAKAGFWEF ESLQKQEAKN LHRLEGQRP ENKSKNRYKN ILPFDHSRVI  LQGRDSNIPG SDYINANYVK NQLLGPDENST KYIASQGCL DATVNDFWQM  AWQENTRVIV MTTREVEKGR NKCVPYWPEV GTQRVYGLYS VTNCKEHD  EYKLRTLQIS PLDNGDLVRE IWHYQYLSWP DHGVPSEPPG VLSFLDQINQ  RQESLPHAGP IIVHCSAGIG RTGTIIVDM LMESVSTKGL DCDIDIQKTI  QMVRAQRSGM VQTEAQYKFI YVAIAQFIET TKKKLEIIQS QRGQESEYGN  ITYPPALRSA HAKASRTSSK HKEEVYENVH SKNKKEEKVK KQRSADKEKN  KGS LKRNISL TPCRGLRWAD RDL</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Ptpn6
<b>Protein Names</b>	Recommended name: Tyrosine-protein phosphatase non-receptor type 6 EC=3.1.3.48 Alternative name(s): Protein-tyrosine phosphatase SHP-1
<b>Expression Region</b>	1-613
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	<p>This protein 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. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of</p>



this gene, which encode distinct isoforms, have been reported.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.