



# Recombinant Rat Tyrosine-protein phosphatase non-receptor type 2 (Ptpn2)

<b>Product Code</b>	CSB-MP019031RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P35233
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSATIEREFE ELDAQCRWQP LYLEIRNESH DYPHRVAKFP ENRNRNRYRD VSPYDHSRVK LQSAENDYIN ASLVDIEEAQ RSYILTQGPL PNTCCHFWM VWQQKTRAVV MLNRTVEKES VKCAQYWPTD DREMFVKETG FSVKLLSE KSYITVHLLQ LENINSGETR TISHFHYTTW PDFGVPESPA SFLNFLFKVR ESGSLNPDHG PAVIHCSAGI GRSGETFSLVD TCLVLMKGE DVNVKQILLS MRKYRMGLIQ TPDQLRFSYM AIEGAKYTK GDSNIQKRWK ELSKEDLSPV CRHSQNRTMT EKYNGKRIGS EDEKLTGLSS KVPDTVEESS ESILRKRIRE DRKATTAQKV QQMRQRLNET ERKRKRWLYW QPILTKMGFV SVILVGALVG WTLFQLNVL PRLTDT
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Ptpn2
<b>Protein Names</b>	Recommended name: Tyrosine-protein phosphatase non-receptor type 2 EC=3.1.3.48 Alternative name(s): Protein-tyrosine phosphatase PTP-S
<b>Expression Region</b>	1-416
<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>	This protein is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Three alternatively spliced variants of this gene, which encode isoforms differing at their extreme C-termini, have been described. The different C-termini are thought to determine the substrate specificity, as well as the cellular localization of the isoforms. Two highly related but distinctly processed pseudogenes that localize to distinct chromosomes have been reported.
<b>Reconstitution</b>	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.

### 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.