



Recombinant Human Protein tyrosine phosphatase type IVA 2 (PTP4A2)

Product Code	CSB-YP613277HU
Abbreviation	PTP4A2
Storage	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.
Uniprot No.	Q12974
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MNRPAPVEIS YENMRFLITH NPTNATLNKF TEELKKYGVT TLVRVCDATY DKAPVEKEGI HVLDPWFDDG APPPNQIVDD WLNLLKTKFR EEPGCCVAVH CVAGLGRAPV LVALALIECG MKYEDAVQFI RQKRRGAFNS KQLLYLEKYR PKMRLRFRDT NGHC
Source	Yeast
Target Names	PTP4A2
Protein Names	Recommended name: Protein tyrosine phosphatase type IVA 2 EC= 3.1.3.48 Alternative name(s): HU-PP-1 OV-1 PTP(CAAXII) Protein-tyrosine phosphatase 4a2 Protein-tyrosine phosphatase of regenerating liver 2 Short name= PR
Expression Region	1-164
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Alternatively spliced transcript variants that encode two distinct isoforms have been described.
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.

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.