



# Recombinant Rat Peroxiredoxin-1 (Prdx1)

<b>Product Code</b>	CSB-YP737225RA
<b>Abbreviation</b>	Prdx1
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q63716
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SSGNAKIGH PAPSFKATAV MPDGGQFKDIS LSDYKGGKYVV FFFYPLDFTF VCPTEIIAFS DRAEEFKKLN CQVIGASVDS HFCHLAWINT PKKQGGGLGPM NIPLVSDPKR TIAQDYGVK ADEGISFRGL FIIDDKGILR QITINDLPVG RSVDEILRLV QAFQFTDKHG EVCPAGWKPG SDTIKPDVVK SKEYFSKQK
<b>Source</b>	Yeast
<b>Target Names</b>	Prdx1
<b>Protein Names</b>	Recommended name: Peroxiredoxin-1 EC= 1.11.1.15 Alternative name(s): HBP23 Heme-binding 23 kDa protein Thioredoxin peroxidase 2 Thioredoxin- dependent peroxide reductase 2
<b>Expression Region</b>	2-199
<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 of Mature Protein
<b>Target Details</b>	This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in cells, and may contribute to the antiviral activity of CD8(+) T-cells. This protein may have a proliferative effect and play a role in cancer development or progression. Three transcript variants encoding the same protein have been identified for this gene.
<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.
<b>Shelf Life</b>	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.