Recombinant Rat Glutathione peroxidase 2 (Gpx2)

Product Code	CSB-EP009867RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P83645
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MAYIAKSFYD LSAIGLDGEK IDFNTFRGRA VLIENVASLU GTTTRDYTQL NELQCRFPRR LVVLGFPCNQ FGHQENCQNE EILNSLKYVR HGGGFQPTFS LTQKCDVNGQ NQHPVFAYLK DKLPYPYDDP FSLMTDPKLI IWSPVRRSDV SWNFEKFLIG PEGEPFRRYS RTFQTINIEP DIKRLLKVAI
Source	E.coli
Target Names	Gpx2
Protein Names	Recommended name: Glutathione peroxidase 2 Short name= GPx-2 Short name= GSHPx-2 EC= 1.11.1.9 Alternative name(s): Glutathione peroxidase-gastrointestinal Short name= GPx-GI Short name= GSHPx-GI
Expression Region	1-190
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 gene is a member of the glutathione peroxidase family and encodes a selenium-dependent glutathione peroxidase that is one of two isoenzymes responsible for the majority of the glutathione-dependent hydrogen peroxide-reducing activity in the epithelium of the gastrointestinal tract. Studies in knockout mice indicate that mRNA expression levels respond to luminal microflora, suggesting a role of the ileal glutathione peroxidases in preventing inflammation in the GI tract.
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.