



Recombinant Rat Haptoglobin (Hp)

Product Code	CSB-EP010691RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P06866
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	<p>VE LGNDATDIED DSCPKEPEIA NGYVEHLVRY RCRQFYKLQT EGDGIYTLNS EKQWVNPAAG DKLPKCEAVC GKPKHPVDQV QRIIGGSMMDA KGSFPWQAKM ISRHGLTTGA TLISDQWLLT TAQNLFLNHS ENATAKDIAP TLTLYVGKNQ LVEIEKVVLH PERSVVDIGL IKLKQKVLVT EKVMPICLPS KDYVAPGRMG YVSGWGRNVN FRFTERLKYY MLPVADQEK ELHYEKSTVP EKKGAVSPVG VQPILNKHTF CAGLTKYEED TCYGDAGSAF AVHDTEEDTW YAAGILSFDK SCAVAEYGVY VRATDLKDWV QETMAKN</p>
Source	E.coli
Target Names	Hp
Protein Names	Recommended name: Haptoglobin Alternative name(s): Liver regeneration-related protein LRRG173 Cleaved into the following 2 chains: 1. Haptoglobin alpha chain 2. Haptoglobin beta chain
Expression Region	19-347
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 of Mature Protein
Target Details	<p>This gene encodes a preproprotein, which is processed to yield both alpha and beta chains, which subsequently combine as a tetramer to produce haptoglobin. Haptoglobin functions to bind free plasma hemoglobin, which allows degradative enzymes to gain access to the hemoglobin, while at the same time preventing loss of iron through the kidneys and protecting the kidneys from damage by hemoglobin. Mutations in this gene and/or its regulatory regions cause ahaptoglobinemia or hypohaptoglobinemia. This gene has also been linked to diabetic nephropathy, the incidence of coronary artery disease in type 1 diabetes, Crohn s disease, inflammatory disease behavior, primary sclerosing cholangitis, susceptibility to idiopathic Parkinson s disease, and a reduced incidence of Plasmodium falciparum malaria. A similar duplicated gene is located next to this gene on chromosome 16. Multiple transcript variants encoding different isoforms have been found for this gene.</p>
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.