

HP Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10680c**Specification****HP Antibody (Center) Blocking peptide - Product Information**Primary Accession [P00738](#)**HP Antibody (Center) Blocking peptide - Additional Information****Gene ID** 3240**Other Names**

Haptoglobin, Zonulin, Haptoglobin alpha chain, Haptoglobin beta chain, HP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HP Antibody (Center) Blocking peptide - Protein Information**Name** HP**Function**

As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage. Haptoglobin also acts as an antioxidant, has antibacterial activity, and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin

HP Antibody (Center) Blocking peptide - Background

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 a haptoglobinemia 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.

HP Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Ucisik-Akkaya, E., et al. Mol. Hum. Reprod. 16(10):770-777(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Savy, M., et al. PLoS ONE 5 (6), E11075 (2010)
Kasvosve, I., et al. Adv Clin Chem 50, 23-46 (2010) :

complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway.

Cellular Location

Secreted.

Tissue Location

Expressed by the liver and secreted in plasma.

**HP Antibody (Center) Blocking peptide -
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)