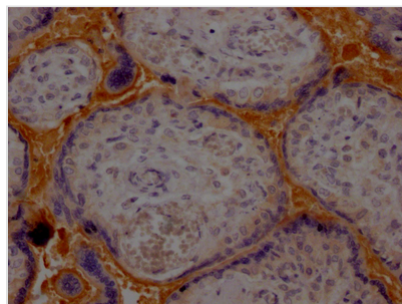




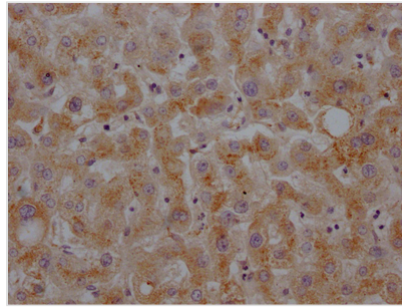
HP Recombinant Monoclonal Antibody

Product Code	CSB-RA224179A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P00738
Immunogen	A synthesized peptide derived from human Haptoglobin
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	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 Antimicrobial; Antioxidant, has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cardiovascular
Gene Names	HP
Clone No.	5A5

Image



IHC image of CSB-RA224179A0HU diluted at 1:100 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA224179A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

HP is an acute-phase protein that binds to hemoglobin and prevents iron loss and kidney injury. It is primarily produced by the liver and serves a variety of physiological purposes, including the irreversible binding of free hemoglobin released by red blood cells (RBCs). HP has anti-inflammatory and antioxidative properties. HP plays a role in modulating many aspects of the acute phase response. HP binds free hemoglobin which may be released during various autoimmune, infectious, or inherited diseases. It is primarily ordered to detect and evaluate hemolytic anemia, as well as to differentiate it from other types of anemia. Because only a tiny amount of in vivo hemolysis is required to completely deplete plasma haptoglobin, HP is regarded an extremely sensitive indication of intravascular hemolysis.

The recombinant HP antibody was generated in vitro through inserting cloned HP genes into expression vectors. The expression vector was then inserted into a mammalian cell to express this HP antibody. It has been validated in ELISA, IHC. Every step in the production was controlled strictly. You have no worries about the quality.