

Anti-Haptoglobin Antibody
Catalog # ABO10913**Specification****Anti-Haptoglobin Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	P00738
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Haptoglobin(HP) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Haptoglobin Antibody - Additional Information**Gene ID** 3240**Other Names**

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

Calculated MW

45205 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted.

Tissue Specificity

Expressed by the liver and secreted in plasma.

Protein Name

Haptoglobin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human Haptoglobin(294-309aa DHLKYVMLPVADQDQC).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the peptidase S1 family.

Anti-Haptoglobin Antibody - 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 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.

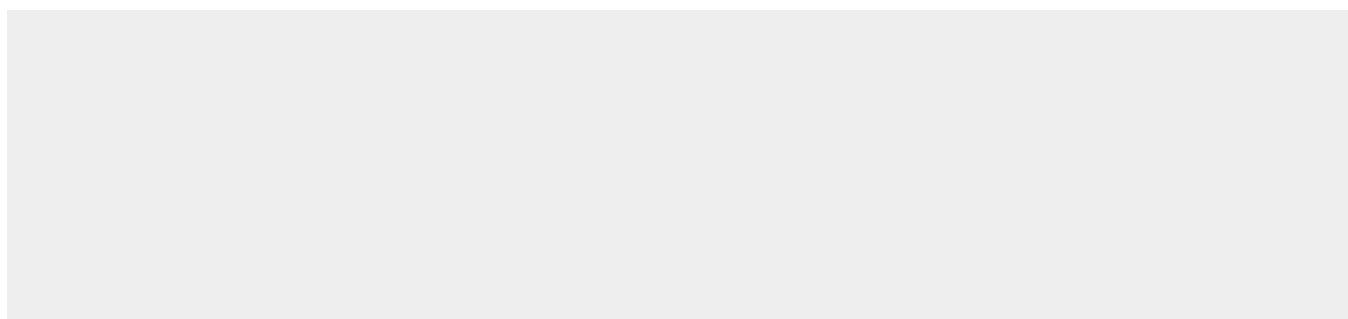
Tissue Location

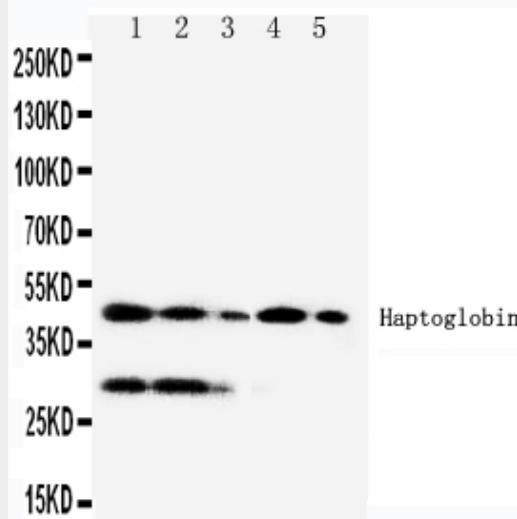
Expressed by the liver and secreted in plasma.

Anti-Haptoglobin Antibody - Protocols

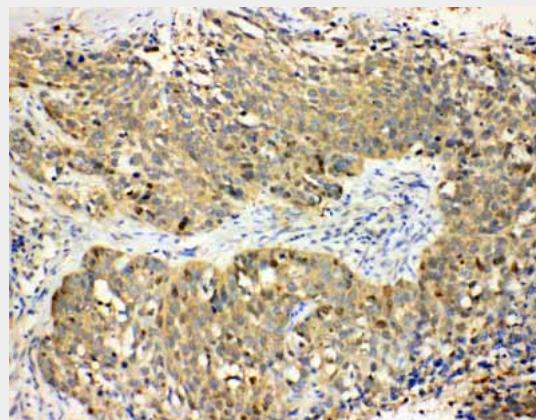
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Haptoglobin Antibody - Images



Anti-Haptoglobin antibody, ABO10913, Western blotting
Lane 1:RAJI Cell Lysate Lane 2:HL-60 Cell Lysate
Lane 3:HUT102 Cell Lysate Lane 4:JURKAT Cell Lysate Lane 5:CEM Cell Lysate



Anti-Haptoglobin antibody, ABO10913, IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-Haptoglobin Antibody - Background

Haptoglobin(HP), is a protein that in humans is encoded by the HP gene. Haptoglobin, a plasma glycoprotein that binds free hemoglobin, has a tetrameric structure of 2 alpha and 2 beta polypeptides that are covalently associated by disulfide bonds. Haptoglobin is homologous to serine proteases of the chymotrypsin family. In the chimpanzee, there are 3 genes in the haptoglobin family(haptoglobin, HP; haptoglobin-related, HPR; and haptoglobin-primate, HPP), whereas only 2 genes exist in humans(HP and HPR). There are similarities between the primary structures of the alpha chain and of light chains of gamma globulins. The alpha haptoglobin locus is on the long arm of chromosome 16, where its exact cytogenetic location is 16q22.2. A major function of haptoglobin is to bind hemoglobin(Hb) to form a stable Hp-Hb complex and thereby prevent Hb-induced oxidative tissue damage. Haptoglobin is an unusual secretory protein in that it is proteolytically processed in the endoplasmic reticulum and not in the Golgi. The human haptoglobin HP*2 allele contains a 1.7-kb intragenic duplication that arose after a unique nonhomologous recombination between the prototype HP*1 alleles.