Mouse anti-Human Haptoglobin (HP) Monoclonal Antibody | anti-HP antibody

Haptoglobin (HP) Mouse Monoclonal Antibody [Clone HP/3840]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215703	**Mouse**	**Human**	**Immunohistochemistry**

PRODUCT SYNONYMS

Haptoglobin (HP); Monoclonal Antibody; Haptoglobin (HP) Mouse Monoclonal Antibody [Clone HP/3840]; Binding peptide (BP); Haptoglobin alpha chain/alpha(1S) beta; Haptoglobin alpha(2FS) beta; Haptoglobin beta chain; Haptoglobin; alpha polypeptide; beta polypeptide; HP; HP2 ALPHA2; HPA1S; HPT; MGC111141; Zonulin; anti-HP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG1, kappa
Clone Number	HP/3840
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0. 05% BSA & 0. 05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-HP antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment (around aa100-250) of human HP protein (exact sequence is proprietary)
Cellular Localization	Secreted. Selective granular cytoplasmic expression in liver with distinct positivity in plasma and extracellular matrix
Positive Control	Human liver.
Hu-chromosome Location	16q22.2
Unigene	513711; 702099
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human liver stained with Haptoglobin Mouse Monoclonal Antibody (HP/3840) at 2ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-HP antibody	Haptoglobin (Hp) is a blood plasma protein that functions to bind free Hemoglobin that has been released from erythrocytes, thereby inhibiting its oxidative activity. During this process, Haptoglobin sequesters the iron within Hemoglobin, preventing iron-utilizing bacteria from benefitting from hemolysis. This function suggests that Haptoglobin concentrations may increase in response to inflammation. The resulting Haptoglobin-Hemoglobin complex is then removed by the reticulo-endothelial system. Due to cleavage of a common precursor protein during protein synthesis, Haptoglobin consists of two a and two b chains, connected by disulfide bridges. In human, Haptoglobin exists in two allelic forms designated Haptoglobin 1 (Hp1) and Haptoglobin 2 (Hp2), where Hp2 is the result of a partial Hp1 gene duplication. There are three known phenotypes of human Haptoglobin: Hp1-1, Hp2-1 and Hp2-2, which may be associated with diabetes and cardiovascular disease pathology and a susceptibility to Parkinson s and Crohn s disease. Haptoglobin levels are useful in identifying hemolytic anemia, the abnormal breakdown of red blood cells. Haptoglobin is expressed in mammalian hepatocytes as well as other tissues such as skin, lung and kidney.

NCBI AND UNIPROT INFORMATION

NCBI GI #	386783
NCBI GeneID	3240
UniProt Accession #	P00738; P00737; Q0VAC4; Q2PP15; Q3B7J0; Q6LBY9; Q9UC67; B0AZL5
Molecular Weight	45,205 Da
NCBI Official Full Name	haptoglobin
NCBI Official Synonym Full Names	haptoglobin
NCBI Official Symbol	HP
NCBI Official Synonym Symbols	BP; HPA1S; HP2ALPHA2
NCBI Protein Information	haptoglobin; zonulin; binding peptide; haptoglobin alpha(1S)-beta; haptoglobin alpha(2FS)-beta; haptoglobin, beta polypeptide; haptoglobin, alpha polypeptide
UniProt Protein Name	Haptoglobin
UniProt Gene Name	**HP**
UniProt Entry Name	HPT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/haptoglobin-hp-antibody-clone-hp-3840-immunohistochemistry-elisa/215703