

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

Mouse anti Human Haptoglobin

CATALOG # AAA50426	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA
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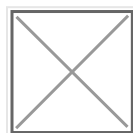
PRODUCT SYNONYMS

Haptoglobin; Monoclonal Antibody; Mouse anti Human Haptoglobin; Haptoglobin antibody | E07-10E9; HAPTOGLOBIN; anti-HP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	E07-10E9
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Phosphate buffered saline 0.09% Sodium Azide (NaN ₃) Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Applicable Applications for anti-HP antibody	ELISA
Immunogen	Native haptoglobin purified from human plasma
Fusion Partners	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
Preparation and Storage	It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

IMAGES



ELISA

Sandwich ELISA analysis of human haptoglobin using Mouse anti Human haptoglobin (AAA50426) as a capture reagent and biotinylated Mouse anti Human haptoglobin as a detection reagent with purified native human haptoglobin as the antigen. Detecti

ADDITIONAL INFORMATION

Related Product Information for anti-HP antibody	Mouse anti Human haptoglobin antibody, clone E07-10E9, recognizes haptoglobin, an alpha sialoglycoprotein. Synthesis of haptoglobin is induced by IL-6, IL-1 beta and TNF and it is produced as a pro-protein before it is cleaved in the endoplasmic reticulum by C1r-like protein, to generate the mature form (Redmond et al. 2018). Haptoglobin is composed of two peptide chains referred to as the alpha and beta chains. It is largely expressed by hepatocytes, but is also expressed to a lesser extent in lung, skin and kidney tissues (Vanuytsel et al. 2013). A key role of haptoglobin is its hemoglobin binding capacity, which is utilized during hemolysis to prevent iron loss and subsequent kidney damage. The haptoglobin-hemoglobin complex is removed by the CD163 receptor expressed on the surface of monocytes and macrophages (Sadrzadeh & Bozorgmehr 2004). Haptoglobin also plays roles in the innate and adaptive immune system and has anti-inflammatory activity such as inhibiting monocyte production of TNF, IL-11 and IL-12 (Arredouani et al. 2005). The purified Mouse anti Human haptoglobin antibody, clone E07-10E9 can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human haptoglobin antibody, clone C08-1E10 as the detection antibody.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	386783
NCBI GeneID	3240
UniProt Accession #	P00738; P00737; Q0VAC4; Q2PP15; Q3B7J0; Q6LBY9; Q9UC67; B0AZL5
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-antibody-clone-e07-10e9-elisa/50426>