

Mouse HP Monoclonal Antibody | anti-HP antibody

HP antibody

CATALOG # AAA74797	HOST Mouse	APPLICATIONS Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

HP; Monoclonal Antibody; HP antibody; Monoclonal HP; Anti-HP; Haptoglobin; alpha polypeptide; beta polypeptide; Hp2 alpha; HP2 alpha2; HPA1S; HPT; MGC111141; anti-HP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	4C2
Purity/Purification	HP antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	406
Applicable Applications for anti-HP antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	HP is an acute-phase plasma protein found in human plasma at 100-300 mg per 100 ml. Binds hemoglobin, thus preventing loss of iron through the kidneys. Humans are polymorphic for haptoglobin, with three major phenotypes. Hp 1-1 is the most common, and the most effective in binding free hemoglobin. Hp 2-2 is the least effective. This functional difference may be associated with the frequency and severity of epilepsy attacks, as researchers have found a correlation between recurring seizures and the Hp 2-2 phenotype.
Cross-Reactivity	Human
Immunogen	HP antibody was raised in mouse using a full length recombinant protein of human HP (NP_005134) produced in HEK293T cells, as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant HP protein using HP antibody



WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant HP protein (Right) or empty vector (Left) detected with HP antibody

ADDITIONAL INFORMATION

Related Product Information for anti-HP antibody	Mouse monoclonal HP antibody
Product Categories/Family for anti-HP antibody	Nutrition & Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826762
NCBI GeneID	3240
NCBI Accession #	NP_005134
NCBI GenBank Nucleotide #	NM_005143.3
UniProt Accession #	P00738 ; P00737 ; Q0VAC4 ; Q0VAC5 ; Q2PP15 ; Q3B7J0 ; Q6LBY9 ; Q9UC67 ; B0AZL5
Molecular Weight	38,452 Da
NCBI Official Full Name	haptoglobin isoform 1 preproprotein
NCBI Official Synonym Full Names	haptoglobin
NCBI Official Symbol	HP
NCBI Official Synonym Symbols	BP; HPA1S; HP2ALPHA2
NCBI Protein Information	haptoglobin
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/hp-antibody-clone-4c2-western-blot-immunofluorescence-flow-cytometry-elisa/74797>