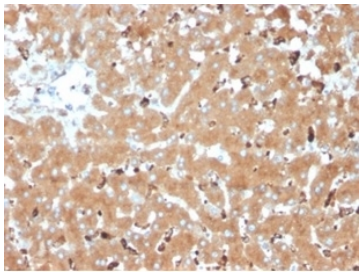
Haptoglobin Antibody HP/3835 / Haptoglobin Protein Antibody [clone HP/3835] (V8846)

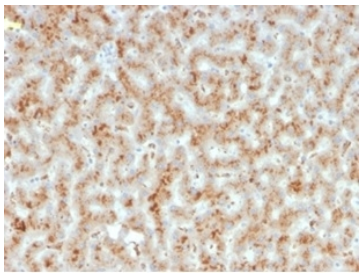
Catalog No.	Formulation	Size
V8846-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8846-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8846SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

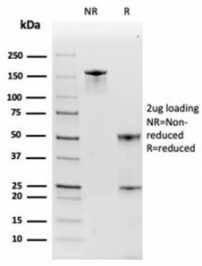
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HP/3835
Purity	Protein A/G affinity
UniProt	P00738
Localization	Secreted, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Haptoglobin Antibody HP/3835 / Haptoglobin Protein Antibody is available for research use only.



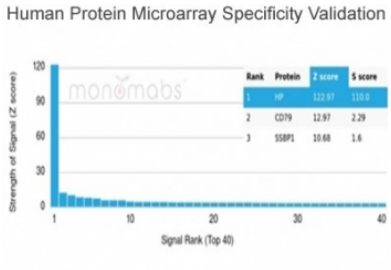
Haptoglobin Antibody HP/3835 Staining of Human Liver IHC. Immunohistochemistry testing of FFPE human liver tissue with Haptoglobin Antibody clone HP/3835 at 2 ug/ml shows strong brown cytoplasmic staining throughout hepatocytes. HIER was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling before antibody testing.



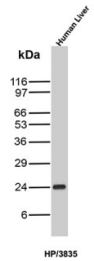
Haptoglobin Protein Antibody HP/3835 Staining of Human Liver IHC. Immunohistochemistry testing of FFPE human liver tissue with Haptoglobin Protein Antibody clone HP/3835 at 2 ug/ml shows widespread granular brown cytoplasmic staining of hepatocytes, with nuclei remaining predominantly counterstained blue. HIER was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 min followed by cooling before antibody testing.



Purified Haptoglobin Antibody HP/3835 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free Haptoglobin Antibody clone HP/3835 under non-reducing (NR) and reducing (R) conditions. The non-reduced antibody migrates at approximately 150 kDa, while reduction produces the expected immunoglobulin heavy and light chain bands at approximately 50 and 25 kDa, respectively, supporting antibody integrity and purity.



Protein Microarray Validation of Haptoglobin Antibody HP/3835. Protein microarray analysis of Haptoglobin Antibody clone HP/3835 using a HuProt array containing more than 19,000 full-length human proteins identifies HP as the dominant binding target. HP ranks first with a Z-score of approximately 123.9 and an S-score of approximately 121.8, showing exceptionally strong separation from the next-highest array signal. The Z-score represents binding signal relative to the mean signal across the array, while the S-score represents separation between the intended target and the next-highest protein signal.



Haptoglobin Antibody HP/3835 Detection in Human Liver WB. Western blot analysis of human liver tissue lysate using Haptoglobin Antibody clone HP/3835. A strong, discrete band is detected at approximately 24 kDa. Haptoglobin is synthesized as an approximately 45 kDa precursor that undergoes proteolytic processing into alpha and beta chains; glycosylation of the processed protein can influence its apparent molecular weight on SDS-PAGE.

Description

Haptoglobin Antibody HP/3835 / Haptoglobin Protein Antibody recognizes haptoglobin, a secreted plasma glycoprotein encoded by the HP gene. Haptoglobin is best known for binding free hemoglobin released during intravascular hemolysis. Formation of the haptoglobin-hemoglobin complex helps limit oxidative damage associated with free hemoglobin and facilitates its clearance from the circulation, making haptoglobin an important component of hemoglobin homeostasis.

Haptoglobin is synthesized primarily in the liver as a precursor protein of approximately 45 kDa. Proteolytic processing produces alpha and beta chains that remain associated through disulfide bonds. The beta chain is extensively N-glycosylated, while genetic variation at the HP locus gives rise to the major Hp1 and Hp2 forms of the alpha chain. These variants produce structurally distinct haptoglobin phenotypes while retaining the capacity to bind hemoglobin.

Haptoglobin is also an acute-phase protein, and circulating concentrations can increase substantially during inflammatory responses. Conversely, serum haptoglobin may decrease when consumption associated with intravascular hemolysis exceeds hepatic production. These characteristics have made haptoglobin an extensively studied marker in research examining inflammation, hemolysis, oxidative stress and liver function.

Binding of extracellular hemoglobin by haptoglobin reduces the availability of potentially damaging free heme-associated

iron and promotes recognition of the complex by the scavenger receptor CD163. This pathway is particularly important in macrophage-mediated clearance of hemoglobin and connects haptoglobin biology with innate immune responses, iron handling and protection from oxidative injury.

Clone HP/3835 is a mouse monoclonal antibody directed against human haptoglobin. This Haptoglobin Antibody is Protein Microarray Validated using a HuProt array containing more than 19,000 full-length human proteins. The Z-score measures target-binding signal relative to the mean signal across the array, while the S-score measures separation between the intended target and the next-highest protein signal, providing complementary measures of binding strength and specificity. NSJ Bioreagents offers this Haptoglobin Protein Antibody for research into haptoglobin expression, hemoglobin clearance and acute-phase protein biology.

Researchers investigating haptoglobin, hemoglobin clearance and innate immune responses to extracellular hemoglobin can explore related targets on our Innate Immunity Antibodies page.

Application Notes

Optimal dilution of the Haptoglobin Antibody HP/3835 / Haptoglobin Protein Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 100-250 was used as the immunogen for the Haptoglobin antibody.

Storage

Aliquot the Haptoglobin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

HP antibody, Haptoglobin protein antibody, Haptoglobin precursor antibody, Zonulin antibody

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