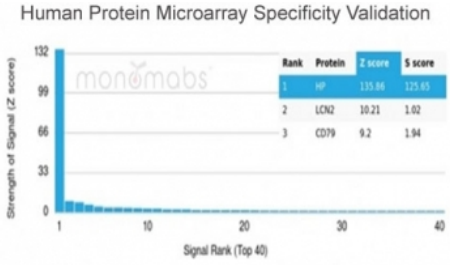
Haptoglobin Antibody [clone HP/3839] (V8988)

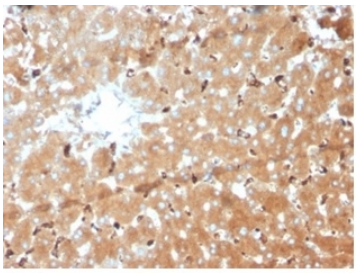
Catalog No.	Formulation	Size
V8988-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8988-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8988SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

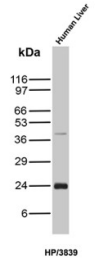
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HP/3839
Purity	Protein A/G affinity
UniProt	P00738
Localization	Secreted, cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This Haptoglobin antibody is available for research use only.



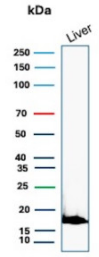
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Haptoglobin antibody (clone HP/3839). These results demonstrate the foremost specificity of the HP/3839 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human liver tissue with Haptoglobin antibody (clone HP/3839) at 2ug/ml. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Haptoglobin Antibody HP/3839 Detection in Human Liver WB. Western blot analysis of human liver tissue lysate using Haptoglobin Antibody clone HP/3839. A strong, discrete band is detected at approximately 24 kDa, with a much weaker band at approximately 38-40 kDa. Haptoglobin is synthesized as an approximately 45 kDa precursor that undergoes proteolytic processing into alpha and beta chains; differences in processing and glycosylation can influence the apparent molecular weight of haptoglobin species on SDS-PAGE.



Haptoglobin Antibody HP/3839 Detection in Human Liver WB. Western blot analysis of human liver tissue lysate using Haptoglobin Antibody clone HP/3839. A strong, discrete band is detected at approximately 18 kDa. Haptoglobin is synthesized as an approximately 45 kDa precursor that undergoes proteolytic processing into alpha and beta chains; differences in proteolytic processing and glycosylation can influence the apparent molecular weight of haptoglobin species on SDS-PAGE.

Description

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. [UniProt]

For an additional Protein Microarray Validated monoclonal antibody to haptoglobin, see our Haptoglobin Antibody HP/3835 / Haptoglobin Protein Antibody page.

Application Notes

Optimal dilution of the Haptoglobin 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.

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