

## Haptoglobin Monoclonal antibody

Catalog Number: 66229-1-Ig 1 Publications

## Basic Information

<b>Catalog Number:</b> 66229-1-Ig	<b>GenBank Accession Number:</b> BC058031	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3240	<b>CloneNo.:</b> 3B4B9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P00738	<b>Recommended Dilutions:</b> WB 1:2000-1:20000 IHC 1:4000-1:16000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> haptoglobin	
<b>Immunogen Catalog Number:</b> AG9927	<b>Calculated MW:</b> 281aa,31 kDa; 228aa,25 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : human plasma tissue, IHC : human liver cancer tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, pig	
<b>Cited Species:</b> monkey	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

HP(Haptoglobin) is also named as zonulin and belongs to the peptidase S1 family. HP, a plasma glycoprotein that binds free hemoglobin, has a tetrameric structure of 2 alpha(16 kDa and 9 kDa) and 2 beta(40 kDa) polypeptides that are covalently associated by disulfide bonds. In most species, apart from ruminants, Hp has a molecular mass of 100 kDa, consisting of two subunits of 40 kDa and two subunits of 9 kDa, although in a few species, such as man, genetic variant of Hp forms polymers of higher mass(PMID:2361363). Recent studies of haptoglobin show that certain oligosaccharide structures predominate in different diseases. For example, a highly-fucosylated structure is found in breast cancer and ovarian cancer, highly-sialylated structures in Crohn's disease and highly branched structures in alcoholic liver disease and fucosylated haptoglobin is a good serum marker for pancreatic cancer.(PMID:16385567).

## Notable Publications

Author	Pubmed ID	Journal	Application
Amrita K Cheema	35675853	Int J Radiat Oncol Biol Phys	WB

## Storage

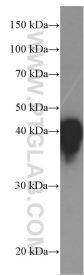
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

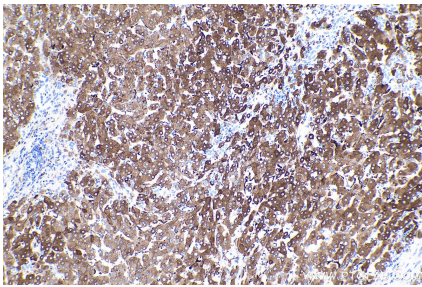
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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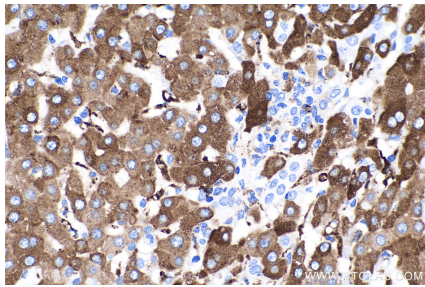
Selected Validation Data



0.5  $\mu$ l human plasma was subjected to SDS PAGE followed by western blot with 66229-1-Ig (HP Antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66229-1-Ig (Haptoglobin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66229-1-Ig (Haptoglobin antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).