

For Research Use Only

Haptoglobin Polyclonal antibody

Catalog Number: 16665-1-AP **10 Publications**



Basic Information

Catalog Number: 16665-1-AP	GenBank Accession Number: BC058031	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 150 ug/ml by Nanodrop and 147 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3240	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P00738	
Isotype: IgG	Full Name: haptoglobin	
Immunogen Catalog Number: AG10143	Calculated MW: 281aa,31 kDa; 228aa,25 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: WB, IHC, IP, ELISA	Positive Controls: WB : mouse serum, HEK-293 cells, human liver tissue, human plasma, rat plasma IP : HepG2 cells, IHC : human liver cancer tissue, human lung cancer tissue
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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
Hua Shen	25801896	Circ Res	WB
John D Belcher	26914345	Antioxid Redox Signal	
Ting Xue	27162549	Theranostics	WB

Storage

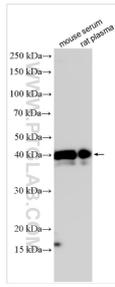
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

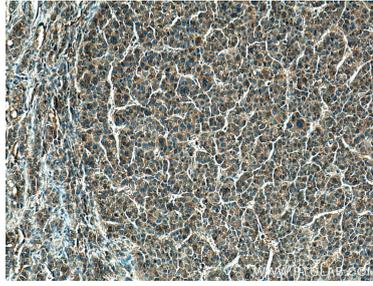
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

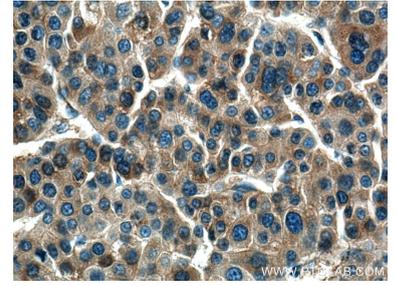
Selected Validation Data



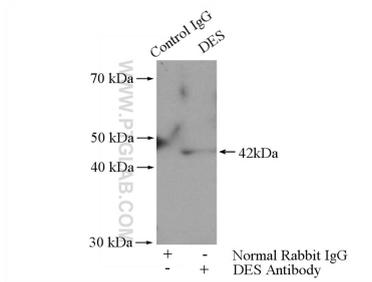
Various lysates were subjected to SDS PAGE followed by western blot with 16665-1-AP (Haptoglobin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16665-1-AP (Haptoglobin antibody) at dilution of 1:200 (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 16665-1-AP (Haptoglobin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Haptoglobin (IP:16665-1-AP, 4ug; Detection:16665-1-AP 1:500) with HepG2 cells lysate 2000ug.