

For Research Use Only

Haptoglobin Polyclonal antibody

Catalog Number: 16665-1-AP

8 Publications



Basic Information

Catalog Number: 16665-1-AP	GenBank Accession Number: BC058031	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 3240	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	Full Name: haptoglobin	
Isotype: IgG	Calculated MW: 281aa,31 kDa; 228aa,25 kDa	
Immunogen Catalog Number: AG10143	Observed MW: 42 kDa	

Applications

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

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

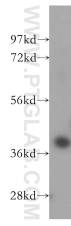
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

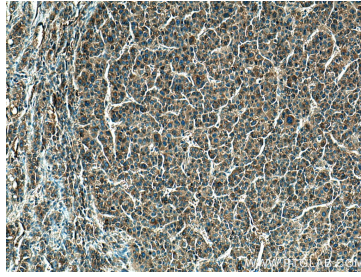
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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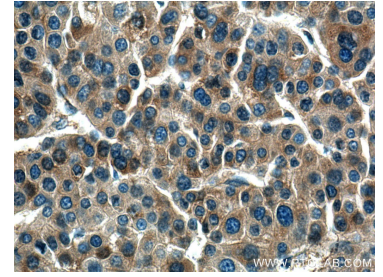
Selected Validation Data



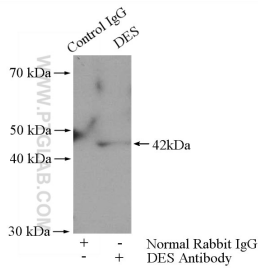
HEK-293 cells were subjected to SDS PAGE followed by western blot with 16665-1-AP (Haptoglobin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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.