

For Research Use Only

Alpha-2-Macroglobulin Polyclonal antibody



Catalog Number: 13545-1-AP

2 Publications

Basic Information

Catalog Number: 13545-1-AP	GenBank Accession Number: BC040071	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 2	Recommended Dilutions: WB 1:5000-1:20000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: alpha-2-macroglobulin	
Isotype: IgG	Calculated MW: 1474 aa, 163 kDa	
Immunogen Catalog Number: AG4489	Observed MW: 185 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human, Plasmodium falciparum

Positive Controls:

WB: human blood tissue, human brain tissue, HepG2 cells, human plasma tissue

IP: HepG2 cells,

IHC: human liver tissue,

IF: HepG2 cells,

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

alpha-2-macroglobulin, also known as α2-macroglobulin (α2M or A2M), is a protein abundant in the plasma of vertebrates and several invertebrates. A2M is an evolutionarily conserved arm of the innate immune system. It also mediates the proliferation of T cells and macrophages. A2M acts as a nonspecific protease inhibitor involved in the host defense mechanism that inactivates both endogenous and exogenous proteases, including trypsin, thrombin and collagenase. Even though A2M is produced predominantly by the liver, it may also be expressed in the reproductive tract, heart, and brain, and may have important roles in many physiological processes and medical illnesses including Alzheimer's disease.

Notable Publications

Author	Pubmed ID	Journal	Application
Takahiro Tougan	32295584	Malar J	WB
Riikka Lampinen	35456941	Int J Mol Sci	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

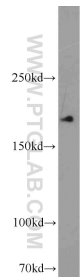
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

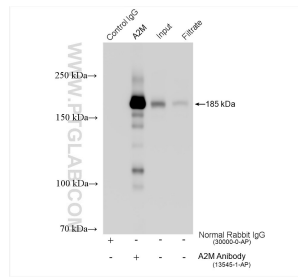
E: proteintech@ptglab.com
W: ptglab.com

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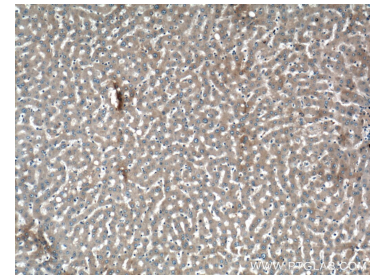
Selected Validation Data



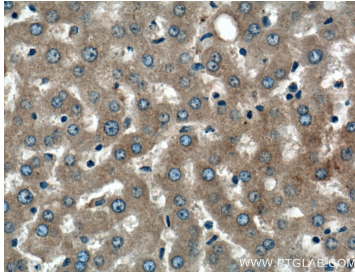
human blood were subjected to SDS PAGE followed by western blot with 13545-1-AP (Alpha-2-macroglobulin antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



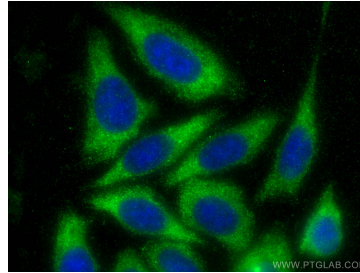
IP result of anti-Alpha-2-Macroglobulin(IP:13545-1-AP, 4ug; Detection:13545-1-AP 1:2000) with HepG2 cells lysate 1080 ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13545-1-AP (Alpha-2-macroglobulin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13545-1-AP (Alpha-2-macroglobulin antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Alpha-2-Macroglobulin antibody (13545-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).