

Alpha-2-Macroglobulin Monoclonal antibody

Catalog Number: **66126-1-Ig**

Basic Information

Catalog Number: 66126-1-Ig	GenBank Accession Number: BC040071	Purification Method: Protein A purification
Size: 150ul , Concentration: 3900 µg/ml by 2 Nanodrop and 1800 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): Full Name: alpha-2-macroglobulin	CloneNo.: 4B11F7
Source: Mouse	Calculated MW: 1474 aa, 163 kDa	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Isotype: IgG2a	Observed MW: 185 kDa	IHC 1:20-1:200 IF 1:200-1:800
Immunogen Catalog Number: AG19245		

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Species Specificity: human	WB : HepG2 cells, human brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IP : human plasma tissue, IHC : human liver tissue, IF : HepG2 cells,

Background Information

alpha-2-macroglobulin, also known as α2-macroglobulin (α2M and 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.

Storage

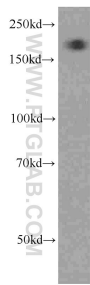
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

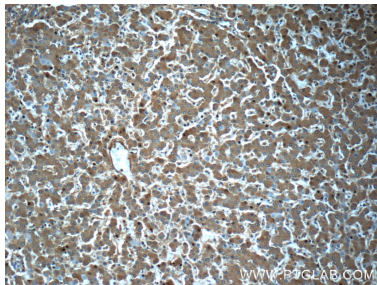
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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

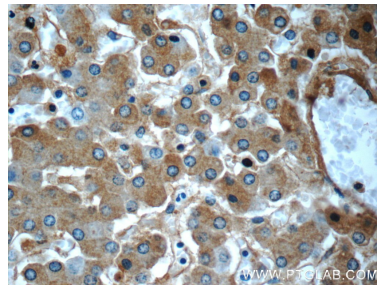
Selected Validation Data



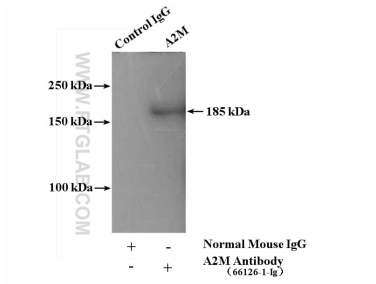
HepG2 cells were subjected to SDS PAGE followed by western blot with 66126-1-Ig (Alpha-2-macroglobulin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



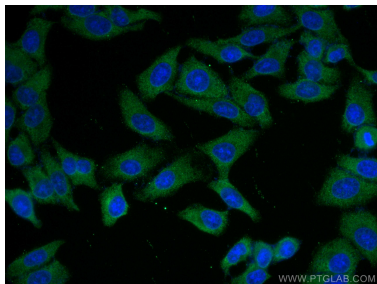
Immunohistochemical analysis of paraffin-embedded human liver slide using 66126-1-Ig (Alpha-2-macroglobulin antibody at dilution of 1:50.



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IP Result of anti-Alpha-2-macroglobulin (IP:66126-1-Ig, 5ug; Detection:66126-1-Ig 1:500) with human plasma lysate 4000ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using Alpha-2-Macroglobulin antibody (66126-1-Ig, Clone: 4B11F7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).