

For Research Use Only

# Alpha-2-Macroglobulin Monoclonal antibody

Catalog Number: 66126-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66126-1-Ig	<b>GenBank Accession Number:</b> BC040071	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 3900 ug/ml by 2 Nanodrop and 1800 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> UNIPROT ID: P01023	<b>CloneNo.:</b> 4B11F7
<b>Source:</b> Mouse	<b>Full Name:</b> alpha-2-macroglobulin	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:32000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 1474 aa, 163 kDa	
<b>Immunogen Catalog Number:</b> AG19245	<b>Observed MW:</b> 185 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, human brain tissue IP : human plasma tissue, IHC : human liver tissue, IF/ICC : HepG2 cells,
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	
<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

alpha-2-macroglobulin, also known as  $\alpha 2$ -macroglobulin ( $\alpha 2$ M 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Mateusz Olbromski	39005669	Am J Cancer Res	IHC
Balamurugan Packialakshmi	38426210	Front Physiol	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

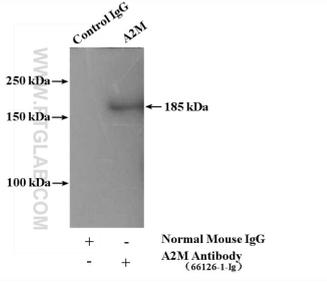
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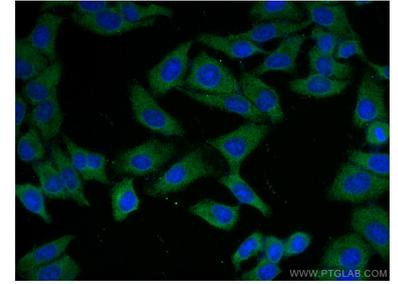
## Selected Validation Data



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.



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 Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66126-1-Ig (Alpha-2-Macroglobulin antibody) at dilution of 1:32000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66126-1-Ig (Alpha-2-Macroglobulin antibody) at dilution of 1:32000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).