

For Research Use Only

Alpha-2-Macroglobulin Monoclonal antibody

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



Basic Information

Catalog Number: 66126-1-Ig	GenBank Accession Number: BC040071	Purification Method: Protein A purification
Size: 3900 μ g/ml	GeneID (NCBI): 2	CloneNo.: 4B11F7
Source: Mouse	UNIPROT ID: P01023	Recommended Dilutions: WB 1:500-1:2000
Isotype: IgG2a	Full Name: alpha-2-macroglobulin	IP 0.5-4.0 μ g for 1.0-3.0 mg of total protein lysate
Immunogen Catalog Number: AG19245	Calculated MW: 1474 aa, 163 kDa	IHC 1:1000-1:32000
	Observed MW: 185 kDa	IF/ICC 1:200-1:800

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls: WB : HepG2 cells, human brain tissue
Cited Applications: WB, IHC	IP : human plasma tissue,
Species Specificity: human	IHC : human liver tissue,
Cited Species: human, mouse	IF/ICC : 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 α 2-macroglobulin (α 2M 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

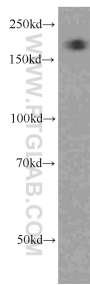
Storage

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

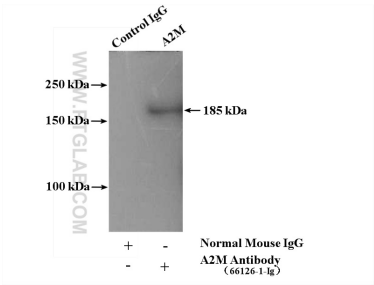
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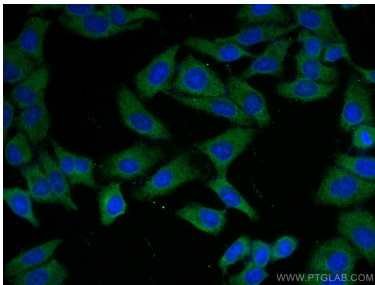
Selected Validation Data



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).