

For Research Use Only

Alpha-2-Macroglobulin Monoclonal antibody



Catalog Number: 66126-1-Ig

Basic Information

Catalog Number:

66126-1-Ig

Size:

3900 μ g/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG19245

GenBank Accession Number:

BC040071

GeneID (NCBI):

2

UNIPROT ID:

P01023

Full Name:

alpha-2-macroglobulin

Calculated MW:

1474 aa, 163 kDa

Observed MW:

185 kDa

Purification Method:

Protein A purification

CloneNo.:

4B11F7

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 μ g for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:32000

IF 1:200-1:800

Applications

Tested Applications:

WB, IP, IHC, IF/ICC, ELISA

Species Specificity:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells, human brain tissue

IP : human plasma tissue,

IHC : human liver tissue,

IF : HepG2 cells,

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.

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

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

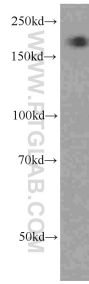
T: 4006900926

E: Proteintech-CN@ptglab.com

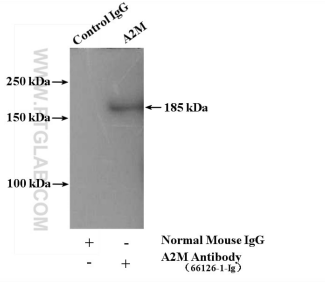
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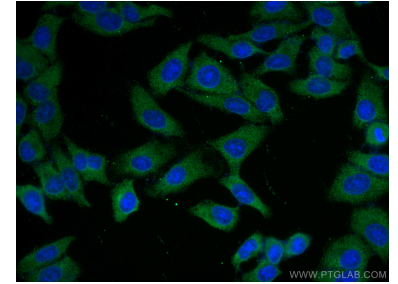
Selected Validation Data



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 AffiniPure 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).