

# Alpha-2-Macroglobulin (A2M) Rabbit mAb

Catalog No.: A9752 **Recombinant** **1 Publications**

## Basic Information

### Observed MW

185kDa

### Calculated MW

163kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC1734

## Background

The protein encoded by this gene is a protease inhibitor and cytokine transporter. It uses a bait-and-trap mechanism to inhibit a broad spectrum of proteases, including trypsin, thrombin and collagenase. It can also inhibit inflammatory cytokines, and it thus disrupts inflammatory cascades. Mutations in this gene are a cause of alpha-2-macroglobulin deficiency. This gene is implicated in Alzheimer's disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits. A related pseudogene, which is also located on the p arm of chromosome 12, has been identified.

## Recommended Dilutions

**WB** 1:500 - 1:1000

**IHC-P** 1:200 - 1:2000

**IF/ICC** 1:100 - 1:400

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

2

### Swiss Prot

P01023

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1200-1300 of human Alpha-2-Macroglobulin (A2M) (P01023).

### Synonyms

A2MD; CPAMD5; FWP007; S863-7; Alpha-2-Macroglobulin (A2M)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

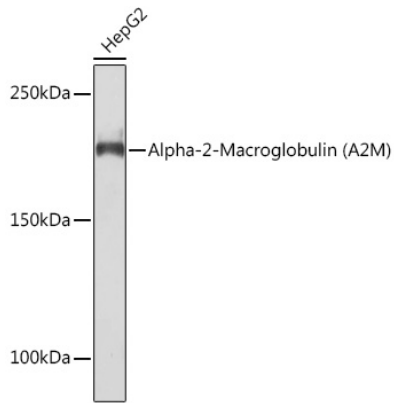
Affinity purification

### Storage

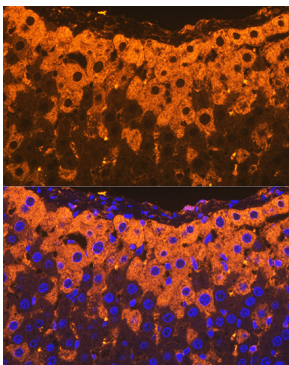
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

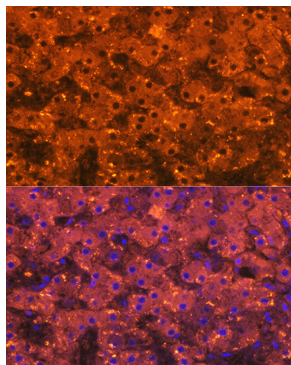
## Validation Data



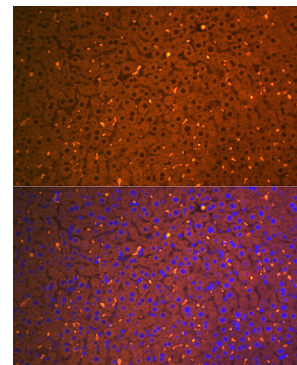
Western blot analysis of lysates from Hep G2 cells, using Alpha-2-Macroglobulin (Alpha-2-Macroglobulin (A2M)) Rabbit mAb (A9752) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



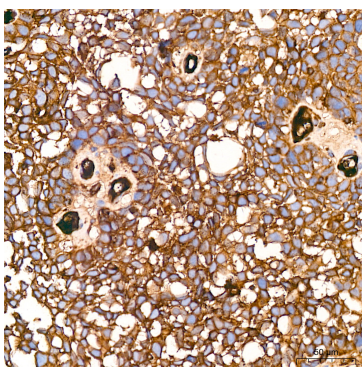
Immunofluorescence analysis of paraffin-embedded rat liver using Alpha-2-Macroglobulin (Alpha-2-Macroglobulin (A2M)) Rabbit mAb (A9752) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



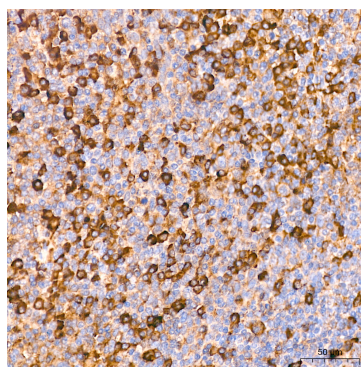
Immunofluorescence analysis of paraffin-embedded human liver using Alpha-2-Macroglobulin (Alpha-2-Macroglobulin (A2M)) Rabbit mAb (A9752) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



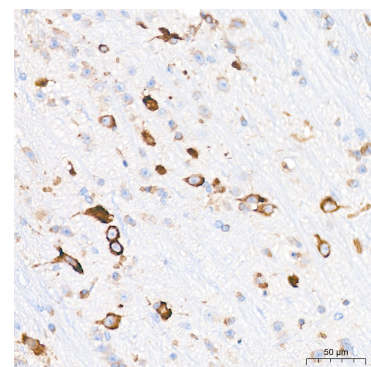
Immunofluorescence analysis of paraffin-embedded mouse liver using Alpha-2-Macroglobulin (Alpha-2-Macroglobulin (A2M)) Rabbit mAb (A9752) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using Alpha-2-Macroglobulin (A2M) Rabbit mAb (A9752) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



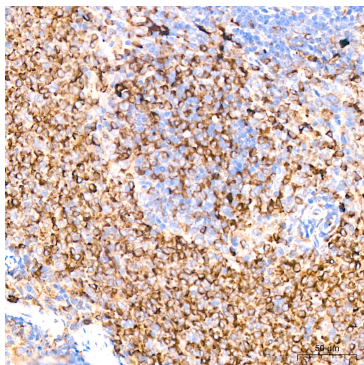
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Alpha-2-Macroglobulin (A2M) Rabbit mAb (A9752) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Alpha-2-Macroglobulin (A2M) Rabbit mAb (A9752) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Alpha-2-Macroglobulin (A2M) Rabbit mAb (A9752) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.