Anti-A2M Antibody [JM81-41]

ET1703-69



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human

Applications: WB, IHC-P

Molecular Wt: Predicted band size: 163 kDa

Clone number: JM81-41

Description: α -2-Macroglobulin (α -2M) is a homotetrameric serum protein consisting of four identical

subunits that form dimers through disulfide bonds. Initially, α -2M was characterized as a pan-proteinase inhibitor that was able to "bait" proteinases into cleaving specific peptide sequences on α -2M. This interaction induces a conformational change in α -2M, thus enabling it to "trap" the proteinase and further inhibit its activity. Subsequently, α -2M has been shown to function as a carrier protein and regulator of cytokines during inflammation. Circulating transforming growth factor β (TGF β) in serum is primarily bound to α -2M, which renders TGF β inactive. α -2M also binds to IL-6 and, thereby, increases the concentration of IL-6 near lymphocytes, hepatocytes and stem cells involved in mediating the inflammatory cascade. Mutations and deletions in the gene encoding α -2M are associated with an increased incidence of Alzheimer's Disease (AD), which is consistent with the role of α -2M in mediating the clearance and degradation of A β , the major component of β -Amyloid deposits

accumulated during AD.

Immunogen: Synthetic peptide within Human A2M aa 1206-1245 / 1474.

Positive control: human placenta tissue lysates, human liver tissue, human tonsil tissue, human spleen tissue.

Subcellular location: Secreted.

Database links: SwissProt: P01023 Human

Recommended Dilutions:

WB 1:1,000-1:2,000 **IHC-P** 1:50-1:200

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into

single-use upon delivery. Store at -20 °C long term.

Purity: Protein A affinity purified.

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Technical:0086-571-89986345

Service mail:support@huabio.cn



Images

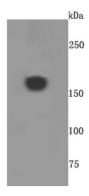


Fig1: Western blot analysis of A2M on human placenta tissue lysates using anti-A2M antibody at 1/500 dilution.

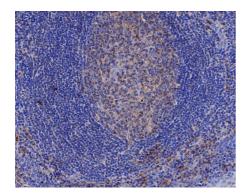


Fig2: Immunohistochemical analysis of paraffin-embedded human tonsil tissue tissue with Rabbit anti-A2M antibody (ET1703-69) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1703-69) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

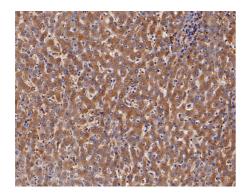


Fig3: Immunohistochemical analysis of paraffin-embedded human liver tissue with Rabbit anti-A2M antibody (ET1703-69) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1703-69) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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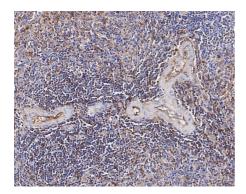


Fig4: Immunohistochemical analysis of paraffin-embedded human spleen tissue with Rabbit anti-A2M antibody (ET1703-69) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1703-69) at 1/50 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Kotula E et al. DNA-PKcs plays role in cancer metastasis through regulation of secreted proteins involved in migration and invasion. Cell Cycle 14:1961-72 (2015).
- 2. Lund J et al. ADAMDEC1 is a metzincin metalloprotease with dampened proteolytic activity. J Biol Chem 288:21367-75 (2013).