A2M polyclonal antibody

Catalog: BS60859 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

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 thatwas 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 inhibit its further activity. Subsequently, α-2M has also been shown to function as a carrier protein and regulator of cytokines during inflammation. Circulating transforming growth factor β (TGFβ) in serumis primarily bound to α-2M,which renders TGFβ inactive. α-2M also binds to IL-6 and, thereby, increasesthe concentration of IL-6 near lymphocytes, hepatocytes and stem cells involved inmediating the inflammatory cascade. Mutations and deletions in the gene encoding α-2M are associated with an increased incidence of Alzheimer’s Disease (AD),which isconsistent with the role of α-2M inmediating the clearance and degradation of Aβ, the major component of β-Amyloid deposits accumulated during AD.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 185 kDa

Swiss-Prot:

P01023

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:203

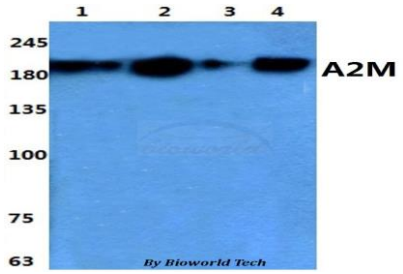
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

A2M polyclonal antibody detects endogenous levels of A2M protein.

DATA:



Western blot (WB) analysis of A2M polyclonal antibody at 1:500 dilution

Lane1:HEK293T whole cell lysate

Lane2:Raw264.7 whole cell lysate

Lane3:NIH-3T3 whole cell lysate

Lane4:PC12 whole cell lysate

Note:

For research use only, not for use in diagnostic procedure.

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