

A2M polyclonal antibody

Catalog: BS90012

Host: Rabbit

Reactivity: Human

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 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.

Product:

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

Molecular Weight:

163 kDa

Swiss-Prot:

P01023(Human)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000-1:2,000

IHC:1:50-1:200

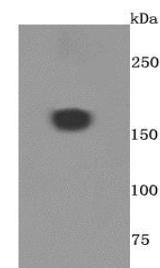
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

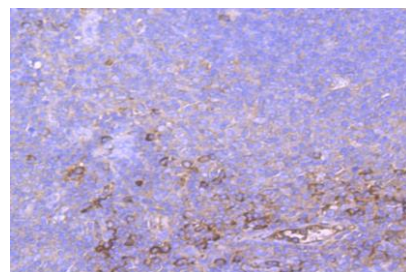
Specificity:

A2M polyclonal antibody detects endogenous levels of A2M protein.

DATA:



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



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-A2M antibody. Counter stained with hematoxylin.

Note:

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

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