bs-13780R **[Primary Antibody]**

A2ML1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 144568 **SWISS:** A8K2U0

Target: A2ML1

Immunogen: KLH conjugated synthetic peptide derived from human A2ML1: 31-130/1454.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: alpha-2-Macroglobulin (alpha-2M) is a homotetrameric serum protein consisting of four identical subunits that form dimers through disulfide bonds. Initially, alpha-2M was characterized as a pan-proteinase inhibitor that was able to “bait” proteinases into cleaving specific peptide sequences on alpha-2M. This interaction induces a conformational change in alpha-2M, thus enabling it to “trap” the proteinase and further inhibit its activity. Subsequently, alpha-2M has been shown to function as a carrier protein and regulator of cytokines during inflammation. Circulating transforming growth factor beta (TGF beta) in serum is primarily bound to alpha-2M, which renders TGF ∫ inactive. Mutations and deletions in the gene encoding alpha-2M are associated with an increased incidence of Alzheimer's Disease (AD). Alpha-2-macroglobulin-like protein 1 (alpha2ML1) is a related protein that is expressed in the epidermis and may play a role in keratinocyte differentiation.

Applications: **ELISA** (1:5000-10000)

Reactivity: (predicted: Human, Horse)

Predicted MW.: 159 kDa

Subcellular Location: Cytoplasm

SELECTED CITATIONS

- **[IF=6.081]** Jackie Trink. et al. Activated Alpha 2-Macroglobulin Is a Novel Mediator of Mesangial Cell Profibrotic Signaling in Diabetic Kidney Disease. Biomedicines. 2021 Sep;9(9):1112 WB,IHC ;Mouse. 10.3390/biomedicines9091112