

## Anti-A2M(Alpha-2-macroglobulin) Polyclonal Antibody

Cat. #: 60B997

### Description:

A2M (Alpha-2-macroglobulin) is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thiolester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase.

### Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human A2M (Alpha-2-macroglobulin precursor)

### References

Matthijs, G., et al, Biochem. Biophys. Res. Commun. 184 (2), 596-603 (1992)  
Sottrup-Jensen, L., et al, J. Biol. Chem. 259 (13), 8318-8327 (1984)  
Bell, G.I., et al, Somat. Cell Mol. Genet. 11 (3), 285-289 (1985)  
Zhang, H., et al, Nat. Biotechnol. 21 (6), 660-666 (2003)  
Sottrup-Jensen, L., et al, FEBS Lett. 127 (2), 167-173 (1981)  
Hall, P.K., et al, Biochem. Biophys. Res. Commun. 100 (1), 8-16 (1981)  
Huang, W., et al, Protein Sci. 7 (12), 2602-2612 (1998)  
Poller, W., et al, Hum. Genet. 88 (3), 313-319 (1992)

Species: human, rat

Storage and Stability: at -20°C

### Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

### Preparation:

Purified by antigen-specific affinity chromatography.

### Applications :

ELISA

Western Blotting (1 µg/ml for 2hrs)