

Anti-ADAMTS-1 (A disintegrin and metalloproteinase with thrombospondin motifs 1) Polyclonal Antibody

Cat. #:60B904

Description:

ADAM-TS1 (A disintegrin and metalloproteinase with thrombospondin motifs 1) cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. ADAM-TS1 has angiogenic inhibitor activity. Active metalloprotease may be associated with various inflammatory processes as well as development of cancer cachexia. ADAM-TS1 may play a critical role in follicular rupture.

ADAM-TS1 cleaves aggrecan at the 1691-Glu-|-Leu-1692 site, within the chondroitin sulfate attachment domain. It binds 1 zinc ion per subunit. ADAM-TS1 is a secreted protein and is associated with the extracellular matrix. It is induced in vitro in colon adenocarcinoma cells by interleukin-1, or in vivo in kidney and heart by lipopolysaccharide and it is also induced by LH stimulation in granulosa cells of pre-ovulatory follicles. The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix.

The precursor is cleaved by a furin endopeptidase. ADAM-TS1 contains 1 disintegrin domain, 1 peptidase M12B domain, and 3 TSP type-1 domains.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of mouse ADAMTS-1 (A disintegrin and metalloproteinase with thrombospondin motifs 1)

References

Kuno, K., et al, J. Biol. Chem. 272 (1), 556-562 (1997)
Kuno, K., et al, J. Biol. Chem. 274 (26), 18821-18826 (1999)
Robker, R.L., et al, Proc. Natl. Acad. Sci. U.S.A. 97 (9), 4689-4694 (2000)

Species: mouse, rat, human

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)