

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAMTS3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 3% cross-reactivity with recombinant human (rh) ADAMTS4 and less than 1% cross-reactivity with rhADAMTS1, rhADAMTS5, rhADAMTS13, and rhADAMTSL1.2 i
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS3 Ser19-Cys712 Accession # O15072
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ADAMTS3 (A disintegrin and metalloprotease with thrombospondin motifs 3; also PC II-NP) is a 140-150 kDa member of the ADAMTS family of Zn metalloproteases. It is expressed by osteoblasts, chondrocytes, myoepithelium and fibroblasts, and participates in collagen maturation. Together with ADAMTS2 and TS14, ADAMTS3 is known to process the N-terminus of procollagen. In particular, it cleaves the N-terminal globular region of collagen I and II, leading to fibril formation. Mature human proADAMTS3 is a secreted, 1185 amino acid (aa) glycoprotein. It is highly modular and contains a proregion (aa 38-201), a peptidase M12B domain (aa 256-460), a disintegrin region (aa 470-550), four TSP type I sequences (aa 551-1015), and a PLAC domain (aa 1015-1054). There are two potential splice variants. One shows a 38 aa substitution for aa 169-1205, while another shows an alternative start site at Met171. Over aa 19-712, human ADAMTS3 shares 91% aa identity with mouse ADAMTS3.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.