Human ADAMTS3 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5465S
100 µg

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 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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, chrondrocytes, 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

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