

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ADAMTS8 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS8 Pro29-Arg691 (Gly35Arg, Gly431Ala, Val526Ala) Accession # AAD48081
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	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.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunohistochemistry</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunoprecipitation</b>	Optimal dilution of this antibody should be experimentally determined.

**PREPARATION AND STORAGE**

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

**BACKGROUND**

ADAMTS8 (A disintegrin and metalloprotease with thrombospondin motifs 8; also METH-2) is a 95 kDa member of an ADAMTS subfamily of Zn metalloproteases that includes ADAMST-1, -4, -5 and -15. It is expressed by chondrocytes, neurons, astrocytes and macrophages, and likely participates in proteoglycan (aggrecan) proteolysis. Human proADAMTS8 is a secreted, 863 amino acid (aa) glycoprotein. It is highly modular and contains a proregion (aa 27-213), a peptidase M12B domain (aa 219-429), a disintegrin region (aa 438-525), and two TSP type I sequences (aa 526-888) that are separated by an intervening spacer domain (aa 690-831). Cleavage of the proregion generates a mature 80 kDa molecule that may undergo additional processing to create a 65-67 kDa truncated form. There are two potential splice variants. One shows a 31 aa substitution for aa 411-889, while another shows an alternative start site at Met231. Over aa 29-691, human ADAMTS8 shares 79% aa identity with mouse ADAMTS8.

**PRODUCT SPECIFIC NOTICES**

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