

## 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<br>Pro29-Arg691 (Gly35Arg, Gly431Ala, Val526Ala)<br>Accession # AAD48081 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 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 ADAMTS1, -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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