

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human ADAM19 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 25% cross-reactivity with recombinant mouse ADAM19 is observed, and less than 5% cross-reactivity with recombinant human (rh)&nb                                 |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human ADAM19<br>Arg26-Gln501 (Ser32 del) (Lys33Arg)<br>Accession # Q9H013                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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>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

ADAM19 (a disintegrin and metalloprotease 19; also MADDAM and Meltrin-β) is a 95-100 kDa member of the M12B peptidase family of enzymes. It is expressed on multiple cell types including monocytes, fibroblasts, osteoblasts and dendritic cells. The human ADAM19 proenzyme is a 931 amino acid (aa) type I transmembrane protein. It contains a 178 aa cleavable proregion (aa 26-203) and a 497 aa extracellular domain (ECD) (aa 204-702). The ECD contains a metalloprotease domain (aa 211-409), a disintegrin region (aa 417-503) and a Cys-rich domain (aa 504-650). The ECD circulates in plasma bound to 700 kDa α2-Macroglobulin. One splice variant shows an alternate start site at Met71, while two isoforms show variations after Lys902. Over aa 205-702, human ADAM19 is 87% aa identical to mouse ADAM19.

#### PRODUCT SPECIFIC NOTICES

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