

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAM22 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) ADAM8, rhADAM12, and rhADAM33 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAM22 Gly26-His528 (Leu78Val) Accession # Q9P0K1
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

ADAM22 (a disintegrin and metalloprotease 22; also MDC2) is an 85-90 kDa member of the M12B peptidase family of enzymes. It is expressed on both neurons and astrocytes in cranial regions of the CNS. The human ADAM22 precursor is an 881 amino acid (aa) type I transmembrane protein. It contains a 197 aa cleavable proregion (aa 26-222) and a 512 aa extracellular domain (ECD) (aa 223-736). The ECD contains a nonfunctional metalloprotease domain (aa 239-438), an integrin-binding disintegrin region (aa 444-531) and a Cys-rich domain (aa 532-678). Multiple splice variants exist, two of which may involve the ECD. Both show premature truncations. One has a 10 aa substitution for aa 234-906, while a second shows an 11 aa substitution for aa 332-906. Over aa 26-528, human ADAM22 is 90% aa identical to mouse ADAM22.

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