

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human ADAM22
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human ADAM22, see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 proprecursor 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.