

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAMTS13 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) ADAMTS14 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS13 Gln34-Trp688 Accession # Q76LX8
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 ADAMTS13 (Catalog # 4245-AD)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human ADAMTS13 Full Length (Catalog # 6156-AD), 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

ADAMTS13 (A disintegrin and metalloprotease with TSP motifs 13) is a 140-230 kDa, secreted glycoprotein member of the ADAMTS family of proteases. ADAMTS13 is produced by the liver and circulates in plasma where it cleaves and reduces the activity of von Willebrand factor. ProADAMTS13 is 1398 amino acids (aa) in length. It contains a 45 aa prodomain (aa 30-74), one peptidase domain (aa 80-286) and one disintegrin (aa 287-383) domain, multiple TSP regions and two CUB domains. The prodomain does not affect activity, while the TSP and CUB domains appear to be necessary for activity. One truncated form exists that shows truncation after Gln448. Over aa 34-688, human ADAMTS13 shares 76% aa identity with mouse ADAMTS13.