

Human ADAMTS8 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6614

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human ADAMTS8 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS8 Pro29-Arg691 (Gly35Arg, Gly431Ala, Val526Ala) Accession # AAD48081
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	1 µg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human ADAMTS8, see our available Western blot detection antibodies



Detection of Human ADAMTS8 by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line either transfected with human ADAMTS8, mock transfected (-), or transfected with an unrelated vector. PVDF Membrane was probed with 1 µg/mL of Human ADAMTS8 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF6614) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # Catalog # HAF016). A specific band was detected for ADAMTS8 at approximately 80-85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



ADAMTS8 in Human Brain. ADAMTS8 was detected in immersion fixed paraffinembedded sections of human brain (cerebellum) using Sheep Anti-Human ADAMTS8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6614) at 3 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to Purkinje neurons. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections

PREPARATION AND STORAGE			
Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.		
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. 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.

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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 ADAMST-1, -4, -5 and -15. It is expressed by chrondrocytes, 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.

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