

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ADAMTS13 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) ADAMTS1, rhADAMTS4, rhADAMTS5, or rhADAMTS-L1.2 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 442323
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ADAMTS13 isoform 1 Gln34-Trp688 (predicted) Accession # Q76LX8
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	HUVEC human umbilical vein endothelial cells fixed with paraformaldehyde and permeabilized with saponin

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

ADAMTS13 (a disintegrin and metalloproteinase with thrombospondin motifs 13) is a secreted multi-domain zinc protease primarily produced by the liver. In the circulation, it is responsible for cleaving von Willebrand factor (vWF) between Tyr842 and Met843. Defects in ADAMTS13 activity result in the generation of ultra large vWF, leading to thrombotic thrombocytopenic purpura (TTP). The amino acid sequence of human ADAMTS13 in the region of aa 34 to 688 is 76% identical to that of mouse/rat.

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