

Monoclonal antibodies against human ADAMTS13

Product Nos. ADG3304, ADG3305, ADG3306, ADG3307 and ADG3312

Description

ADAMTS13, also known as von Willebrand Factor (vWF) cleaving protease, is a zinc metalloproteinase that cleaves ultra large vWF multimers (UL-vWF) at the Tyr(1605) - Met(1606) bond located in the A2 region of vWF.⁽¹⁾ Studies have shown that low levels of ADAMTS13 activity are associated with Thrombotic Thrombocytopenia Purpura (TTP), a life-threatening hematological condition characterized by low platelet count, microvascular thrombi, red cell fragmentation, CNS and renal complications.^(2,3) A deficiency or low level of ADAMTS13 activity (<5%) may lead to an accumulation of UL-vWF multimers.⁽⁴⁾ The UL-vWF multimers will bind to receptors on platelets inducing platelet aggregation and formation of intravascular thrombi.

Preparation

The monoclonal antibodies are directed against human ADAMTS13, von Willebrand cleaving protease. Mice were immunized with purified recombinant full-length human ADAMTS13 (200 kDa) expressed in a eukaryotic cell line. The antibodies have been purified from cell culture supernatant using Protein G affinity chromatography.

Presentation

Screw capped vial containing 100 µg of purified antibody in PBS pH 7.4, 0.01 % ProClin. The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Applications

Product No.	Clone	Isotype	Known Applications
ADG3304	4.1	na.	Inhibitory
ADG3305	5.1	IgG ₁	Elisa
ADG3306	6.1	na.	Western blot
ADG3307	7.1	na.	Inhibitory
ADG3312	12.1	IgG ₁	Elisa, Western blot, Immunoprecipitation, Inhibitory

Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

Warnings and Precautions

Contains: Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) and Modified alkyl carboxylate (ProClin ® 300)

Hazard pictograms



Warning

Signal word

Hazard statements

H317 - May cause an allergic skin reaction.

Precautionary statements

P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

References

1. Furlan, M., Robles, R. and Lämmle, B. L. Partial Purification and Characterization of a Protease from Human Plasma Cleaving von Willebrand Factor to Fragments Produced by In Vivo Proteolysis. *Blood* 1996, **87(10)**: 4223-4234.
2. Tsai, H. M. Physiologic Cleavage of von Willebrand Factor by a Plasma Protein Is Dependent on Its Conformation and Requires Calcium Ion. *Blood* 1996, **87(10)**: 4235-4244.
3. Furlan, M., *et al.* Von Willebrand Factor-Cleaving Protease In Thrombotic Thrombocytopenic Purpura And The Hemolytic-Uremic Syndrome. *The New England Journal of Medicine* 1998, **339(22)**: 1578-1584.
4. Moake, J. L., *et al.* Unusually large plasma factor VIII: von Willebrand factor multimers in chronic relapsing thrombotic thrombocytopenic purpura. *The New England Journal of Medicine* 1982, **307(23)**: 1432-1435.

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The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.