



american diagnostica inc.

monoclonal antibodies against human ADAMTS13 (von Willebrand cleaving protease) Product Nos. 3305 and 3312

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

No. 3305, Clone 5.1, and No. 3312, Clone 12.1, are murine IgG_{1k} monoclonal antibodies directed against human ADAMTS13, von Willebrand cleaving protease purified from cell culture supernatant using Protein G affinity chromatography. Mice were immunized with purified recombinant full-length human ADAMTS13, approximate molecular ratio of 200 kD, expressed in a eukaryotic cell line.

Presentation

Screw-capped glass vial containing 100 µg of purified IgG_{1k} lyophilized from a 100 µL solution of 0.15M Phosphate Buffered Saline, 0.1M mannitol, pH 7.4

Reconstitution

Add 100 µL of filtered deionized or sterile water to generate a 1.0 mg/mL stock solution.

Storage

Store the lyophilized antibody at 2°-8°C. Aliquot and store reconstituted antibody at -20°C or colder.

Applications

Product No.	Clone	Applications
3305	5.1	ELISA
3312	12.1	ELISA, IP, IH, WB

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.

Related Products

ACTIFLUOR™ ADAMTS13 Activity (Product No. 812)
IMUBIND® ADAMTS13 ELISA (Product No. 813)
IMUBIND® ADAMTS13 Autoantibody ELISA (Product No. 814)
IMUBIND® ADAMTS13/FXI Complex ELISA (Product No. 811)

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