

## 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.<sup>(1)</sup> 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.<sup>(2,3)</sup> A deficiency or low level of ADAMTS13 activity (<5%) may lead to an accumulation of UL-vWF multimers.<sup>(4)</sup> 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 <sub>1</sub>	Elisa
ADG3306	6.1	na.	Western blot
ADG3307	7.1	na.	Inhibitory
ADG3312	12.1	IgG <sub>1</sub>	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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IMMUNOLOGIE • MOLEKULARBIOLOGIE  
BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48  
69221 Dossenheim  
Tel +49 6221 868023  
Fax +49 6221 8680255  
www.loxo.de - info@loxoxo.de

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**Hinweis/Note:** ADG3304-ADG3312©30092022

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