

# Anti-VWF (Caplacizumab), Humanized Antibody

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**CATALOG NO.:** A2263-100 (100 µg)
 

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**BACKGROUND DESCRIPTION:** The research-grade biosimilar is a humanized monoclonal antibody fragment that targets the von Willebrand factor (VWF). The original monoclonal antibody is a bivalent single-variable-domain linked by a three alanine linker. The antibody was approved for the treatment of acquired thrombotic thrombocytopenic purpura (TTP). Acquired TTP occurs due to the production of inhibitory autoantibodies against ADAMTS13. This leads to decreased ADAMTS13 activity that prevents cleavage of the von Willebrand factor. As a result, ultra-large von Willebrand factor multimers form that results in binding of the A1 domains of the VWF multimers to the platelets via glycoprotein Iba and cause platelet aggregation. Aggregation of platelets leads to the formation of microthrombi, which causes ischemia of the tissues and dysfunction of multiple organs, ultimately leading to cognitive deficits, arterial hypertension, and early death. The original monoclonal antibody binds to the A1 domains of the VWF and inhibits the association with platelets thus preventing platelet aggregation and microthrombi formation.

**ALTERNATE NAMES:** VWD, F8VWF, VWF, von Willebrand factor, Coagulation Factor VIII VWF

**ANTIBODY TYPE:** Monoclonal

**HOST/ISOTYPE:** Recombinant / VH-VH

**SOURCE:** CHO cells

**IMMUNOGEN:** Human VWF

**CAS NUMBER:** 915810-67-2

**PURIFICATION:** Protein A purified

**FORM:** Liquid

**FORMULATION:** In PBS, pH 7.5

**SPECIES REACTIVITY:** Human

**STORAGE CONDITIONS:** Store at -80°C. Avoid freeze/thaw cycles

**This information is only intended as a guide. The optimal dilutions must be determined by the user**

**RELATED PRODUCTS:**

Anti-HER2 (Pertuzumab), Humanized Antibody (A2111)  
 Anti-F9/F10 (Emicizumab), Humanized Antibody (A2250)  
 Anti-CD33 (Gemtuzumab), Human IgG4 Antibody (A1443)  
 Anti-CD4 (Ibalizumab), Humanized Antibody (A2251)  
 Anti-VEGF-A (Brolucizumab), Humanized Antibody (A2221)

**FOR RESEARCH USE ONLY! Not to be used on humans.**