



## *Monoclonal Anti-human von Willebrand Factor A2 Domain (ADAMTS13-cleaved) Antibody*

### ORDERING INFORMATION

**Catalog Number:** MAB27642

**Clone:** 490628

**Lot Number:** CBMT01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human vWF A2 Domain  
(ADAMTS13-cleaved)

**Immunogen:** KLH-conjugated peptide from  
human vWF

**Ig class:** mouse IgG<sub>1</sub>

**Recommended Application:**  
Western blot

### **Background**

Human von Willebrand Factor (vWF) is a serum glycoprotein that mediates platelet adhesion to injured vascular endothelium. vWF function is regulated by ADAMTS13 mediated proteolysis within the A2 domain between residues Y1605 and M1606. Mutations of this protease cause thrombotic thrombocytopenic purpura. The amino acid sequence of human vWF-A2 domain N-terminal region (aa 1498 to 1605) is 100%, 86%, 82%, 80% and 77% identical to that of chimpanzee, dog, porcine, cat and bovine.

### **Preparation**

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with a synthetic peptide, DREQAPNLVY, derived from human von Willebrand Factor (aa 1596 - 1605; Accession # NP\_000543; R&D Systems, Catalog # 2764-WF). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography.

### **Formulation**

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### **Reconstitution**

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

### **Storage**

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### **Specificity**

This antibody detects a nascent epitope that is generated upon cleavage of rhvWF-A2 domain with ADAMTS13. It does not detect intact rhvWF-A2 domain.

### **Application**

**Western blot** - This antibody can be used in Western blotting to detect ADAMTS13-cleaved human vWF-A2 Domain.

**Optimal dilutions should be determined by each laboratory for each application.**