



## **Monoclonal antibody anti-human CD42b (Platelet GPIb) Clone VM16d**

### **Description**

Monoclonal antibody anti-human CD42b (Platelet GPIb) (clone VM16d, IgG1 kappa fraction)

**Catalog Number** 656

**Amount** 1 ml (0.2 mg)

### **Specificity**

The monoclonal antibody is directed against the CD42b antigen, platelet glycoprotein GPIb, that serves as a receptor for von Willebrand factor and as a high affinity thrombin receptor. The antigen is expressed on human platelets and megakaryocytes. The antigen is absent or present in very low levels on platelets of patients with the Bernard-Soulier syndrome. VM16d inhibits low conc. thrombin (<0.1 U/ml) induced platelet aggregation and decreases thrombin binding to platelets. F(ab')<sub>2</sub> and F(ab') fragments are equally effective as whole intact antibodies. the VM16d-epitope is located within the 45 kDa N-terminal domain of GPIb alpha- chain. VM16d does not effect platelet interaction with von Willebrand factor, leading to the conclusion that the antibody reacts with or nearby the thrombin receptor site

### **Preparation**

Ammonium sulphate precipitation and DEAE-cellulose chromatography with gradient elution

### **Format**

Purified and lyophilized. Contains azide and PBS

### **Applications**

Analysis of platelet aggregation and detection of GPIb expression. The antibody is also useful for functional studies

### **Reconstitution**

Use 1 ml sterile pure water

### **Storage**

Shipping at ambient temperature. Storage of lyophilized antibodies 2 years at -20°C or lower

RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, DRUG OR HOUSEHOLD USE

### **Related Products**

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