

CD42b, Platelet GPIb, clone VM16d Monoclonal Antibody

Catalog No.: MON1146

Quantity: 1 ml

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')₂ 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.

Immunoglobulin type

Murine IgG₁, kappa

Use

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

Instructions for use

The antibody is useful for indirect immunofluorescence staining with analysis by cytofluorometry or fluorescence microscopy.

Presentation

1 ml lyophilized purified IgG solution in PBS with approximately 0.2 mg antibody/ml and sodium azide. Reconstitute with 1 ml sterile water. Sufficient for 100 tests.

Method of purification

Ammonium sulfate + DEAE-cellulose, gradient elution

Literature

- Mazurov, A., et al., 1991, Thromb. Res. 62, 673-684.

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