

CD36, Platelet GPIV, Thrombospondin Receptor, clone VM58 Monoclonal Antibody

Catalog No.: MON1143

Quantity: 1 ml

Specificity

The monoclonal antibody VM58 is directed against the CD36 antigen, a 90kD glycoprotein, also called GP IIIb expressed on human platelets. The GP IV (GP IIIb) molecule has been shown to function as thrombospondin receptor on platelets and monocytes and as receptor for *Plasmodium falciparum* infected erythrocytes. The monoclonal antibody reacts with platelets, monocytes, macrophages, erythroblasts and (weakly) with B-cells. In immunohistology the monoclonal antibody reacts with some endothelial cells, adipocytes and the granular layer of the skin. The antibody VM58 induces Fc-receptor-dependent platelet aggregation after binding to platelet. The heterogeneity of the response found in healthy individuals is dependent on the polymorphism of the Fc RII on platelets.

Immunoglobulin type

Murine IgG₁, kappa

Use

Functional studies on CD36.

Instructions for use

Indirect immunofluorescence staining with analysis by cytofluorometry or fluorescence microscopy and the antibody can also be used for immunohistology. For fluorescence technique on cells, fixation with 1% paraformaldehyde for 5 min. is advised. It can not be used in Western blot.

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

- Vinogradov, D., et al., 1991, Biokhimikya (Biochemistry) 56, 787-797 (in Russian, English translation).
- Mazurov, A., et al. 1992, Platelets 3, 181-188.
- Berndt, P., et al., 1993, Platelets 4, 190-196.

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Cell Sciences, Inc.
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Web Site: www.cellsciences.com