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CD36
Mouse Anti-Human CD36 (Clone CLB-IVC7) FITC mAb

Catalog No.	M1613	**Quantity:**	100 Tests

Alternate Names: Thrombospondin Receptor, CHDS7, FAT, GP3B, GP4, GPIV, PASIV, SCARB3

Description: The mouse monoclonal antibody recognizes human CD36, a major glycoprotein of the platelet surface. CD36 serves as a receptor for thrombospondin in platelets and various cell lines. Since thrombospondins are widely distributed proteins involved in a variety of adhesive processes, this protein may have important functions as a cell adhesion molecule. It binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. It directly mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes and it binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport.

Gene ID: 948

UniProtKB: P16671

Concentration: 100 tests/1 mL (10 µL/test)

Specificity: The monoclonal antibody is directed against the CD36 antigen (gpIV also known as gpIIIb), which is expressed on human thrombocytes (MW = 90 kDa). It reacts with monocytes, macrophages, early erythroid cells, megakaryocytes and platelets and weak with B-cells. In immunohistology the antibody reacts with some endothelial cells, adipocytes and the granular layer of the skin.

Host: Mouse (BALB/c)

Conjugate: FITC (fluorescein iso-thiocyanate isomer 1). The molecular F/P ratio is between 5 and 10.

Isotype: IgG1

Immunogen: Human monocytes

Clone: CLB-IVC7 (The antibody was submitted to CD36 in the Sixth International Workshop on Human Leukocyte Differentiation Antigens.)

Source: Ascites

Formulation: Liquid in 1 mL of 20 mM TRIS, 150 mM NaCl, pH 8.0, containing 1% BSA (w/v) and 0.1% sodium azide (w/v) as preservative.

Purification: Ion exchange chromatography

Applications: Flow Cytometry, Fluorescence Microscopy, Functional Studies

Application Notes: To prevent interference with red cells, treat whole blood with lysing agent or purify mononuclear cells on density gradient medium.

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Recommended use: 10 µl antibody per 4 x 10^5 purified mononuclear cells in 0.04 ml. 10 µl antibody per 100 µl whole blood (collected in presence of EDTA).

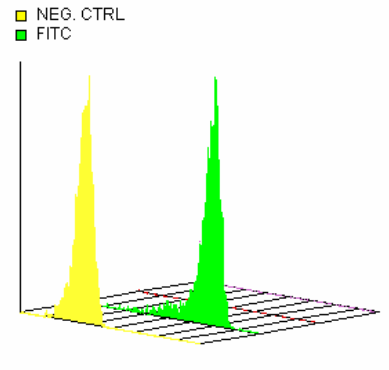
The use of a negative control is recommended to determine background fluorescence produced due to Fc binding capacities by mononuclear cells.

The optimal concentration should be determined by the user for each specific application.

Storage & Stability: Store in the dark at 2-8 °C for up to 1 year. **DO NOT FREEZE**

Statement: PPE is recommended when working with products containing sodium azide.

Fig. 1: Fluorescence profile, scatter gates set on the monocyte fraction (R1)



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