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ThromboStep

Kit designed for quantitation of platelet associated immunoglobulin using flow cytometry



Diagnostic kits for Flow Cytometry

Clinical Relevance.

Generally in humans, a normal platelet count ranges from 150,000 and 450,000 per μl . Thrombocytopenia is the presence of relatively few platelets in blood. Decreased platelet counts can be due to a number of disease processes, the quantification of platelet associated immunoglobulin allow to the cause of thrombocytopenia is decreased ratio in platelet production or an increase in the ratio of destruction.

Immune thrombocytopenic purpura (ITP) is an autoimmune disorder characterized by a low platelet count and mucocutaneous bleeding. The autoantibodies are directed primarily to the platelet-specific receptors CD41a (GPIIb/IIIa) and CD42b (GPIb). As a result, the sensitized platelets are rapidly cleared by the monocyte-macrophage cell systems.

The determination of autoantibodies against thrombocytes allows differentiate immune from nonimmune thrombocytopenia.



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Material Provided

1.1. 1 vial (1,0 ml) monoclonal antibody anti CD42a PE. Recommended for use in flow cytometry for identification of Platelets and Megakaryocytes Reacts with a 17-22kDa single chain integral membrane glycoprotein, also known as GPIX.

1.2. 1 vial (1,0 ml) FITC polyclonal antibody to total human immunoglobulin.

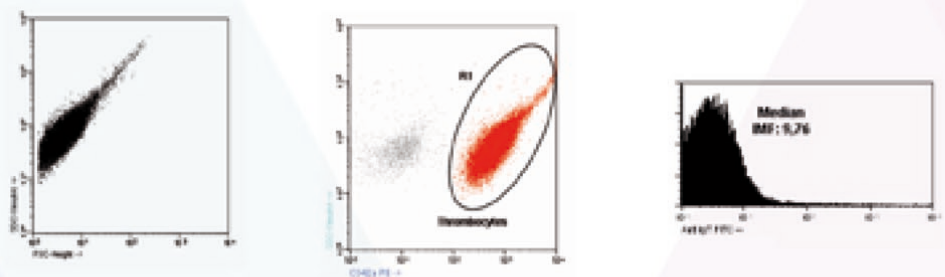
1.3. 1 vial (1,0 ml) FITC polyclonal antibody to human IgA.

1.4. 1 vial (1,0 ml) FITC polyclonal antibody to human IgG.

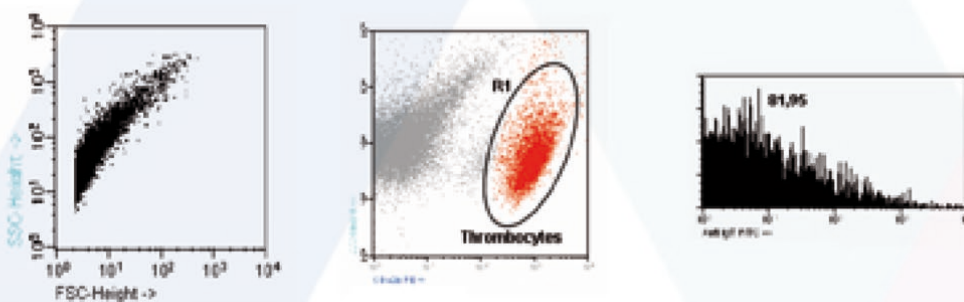
1.5. 1 vial (1,0 ml) FITC polyclonal antibody to human IgM.

1.6. 1 vial (1,0 ml) FITC conjugated polyclonal antibody to total rabbit immunoglobulins.

1.7. 1 bottle WASHING BUFFER, 10 X, 50 ml. Tyrode's Solution without sodium bicarbonate.



Control. Thrombocytes (red events) are cells within CD42a gate (R1)



Immune Thrombocytopenia. Thrombocytes (red events) are cells within CD42a gate (R1)