

Platelet Antibodies

General:

Many antigen systems are expressed on platelet membranes, including ABO, HLA, and PLA1. Antibodies against platelets may be directed to any of these antigens and may be either alloantibodies or autoimmune antibodies. Allo-antibodies are antibodies that occur naturally against foreign tissues (after transfusion, in pregnancy). Autoantibodies are formed against a person's own platelets. This can occur as a primary disorder, such as idiopathic thrombocytopenic purpura (ITP) or secondary to other diseases, such as lymphoma. Both allo and autoantibodies can cause thrombocytopenia.

Indication: platelet refractoriness after multiple transfusions, post-transfusion purpura, neonatal isoimmune purpura, drug-induced platelet antibodies, idiopathic thrombocytopenic purpura (ITP)

Preanalytics: platelets linked IgG and IgM Abs, free thrombocyte-Ab (fibrinogen receptor, GPIIb/IIIa-panel A, panel B, collagenous receptors, GP Ia/IIa-panel A, panel B, THR Willebrand-receptors, GP Ib/V/IX, GP IV, HLA class 1)

TAT: 2 weeks*

Ref.- range: see report

Note: in patients with known thrombocytopenia (thrombocytes $\leq 40,000$) 2 -3 EDTA vials should be collected.

• Platelet Antibodies - Linked

Material: 10 ml EDTA blood

Preanalytics: platelets linked IgG and IgM Abs, free thrombocyte-Ab (fibrinogen receptor, GPIIb/IIIa-panel A, panel B, collagenous receptors, GP Ia/IIa-panel A, panel B, THR Willebrand-receptors, GP Ib/V/IX, GP IV, HLA class 1)

TAT: 2 weeks*

Ref.- range: see report

• Platelet Antibodies - Free

Material: 3ml EDTA blood or 1 ml serum

Preanalytics: If only the free antibodies are to be determined, serum is the preferred material. A hemolyzed EDTA blood cannot be analyzed.

TAT: 2 weeks*

Ref.- range: see report

• **Platelet Antibodies - Free and Linked**

Indication: platelet refractoriness after multiple transfusions, post-transfusion purpura, neonatal isoimmune purpura, drug induced platelet antibodies, idiopathic thrombocytopenic purpura (ITP)

Material: 10ml EDTA blood and 1 ml serum

Prenalytics: Suitable material: EDTA blood (for the cellular/bound antibodies) and serum (for soluble/free antibodies). We recommend to send both an EDTA blood and a serum sample. In case only EDTA blood is received, the laboratory will use the EDTA plasma for testing the free antibodies.

TAT: 2 weeks*

Ref.- range: see report

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit
<http://www.fml-dubai.com/parameter-listings/>