
Lab Dept: Transfusion Services

Test Name: PLATELET ANTIBODY

General Information

Lab Order Codes: APLT

Synonyms: Indirect Platelet Antibody; Antiplatelet Antibodies; PLA-(HPA-Ia); Circulating Platelet Antibody

CPT Codes: 86022 – Screen

Test Includes: Platelet antibody screen and HLA class I antibody screen of patient's serum.

If platelet antibody is detected, platelet antibody identification will be performed.

Logistics

Test Indications: Evaluating cases of immune platelet refractoriness, post-transfusion purpura, or neonatal alloimmune thrombocytopenia.

Lab Testing Sections: Transfusion Service - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: PLAB)

Phone Numbers: MIN Lab: 612-813-6820

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 - 4 days; Test set-up Monday - Saturday

Special Instructions: Red No Gel tube required. See [Patient Preparation](#)

Specimen

Specimen Type: Blood

Container: Red top (no gel) tube

Draw Volume: 4.5 mL (Minimum: 1.5 mL) blood

Processed Volume: 1.5 mL (Minimum: 0.5 mL) serum

Collection:	Routine venipuncture. See Patient Preparation
Special Processing:	Lab Staff: Centrifuge and separate serum aliquot. Store and ship at frozen temperatures. Forward promptly.
Patient Preparation:	The patient must be positively identified when the specimen is collected. The label on the blood specimen must correspond with the identification on the patient's Medical Record wrist or ankle band and on the physician's/practitioner's orders.
Sample Rejection:	Gross hemolysis; sample placed in a serum separator tube; specimen tube not properly labeled; mislabeled or unlabeled specimens

Interpretive

Reference Range: An interpretive report will be provided.

Serum platelet antibody testing by solid-phase enzyme-linked immunoassay offers more than a positive/negative result. When the patient's serum is positive, the specific glycoprotein will be identified as well as the probable specificity. The glycoproteins reported are: IIb/IIIa, Ia/IIa, GPIb/IX. Specificities include the following: HPA-1a(PL[a1]), HPA-1b (PL[a2]), HPA-3a(BAK[a]/LEK[a]), HPA-3b(BAK[b]), HPA-5b(Br[a]), HPA-5a(Br[b]). Those specificities listed in parenthesis refer to old nomenclature. In addition, this assay screens for HLA Class I antibodies, but specificity is not determined.

Interpretation:

Presence of reactivity to some glycoproteins has no clearly established clinical significance.

Results are based on clinical situation as well as test results.

Methodology: Enzyme-linked Immunoassay (ELISA)

References: [Mayo Medical Laboratories](#) April 2016

Updates: 3/2/2004: Test moved from North Central Blood Service of American Red Cross to Mayo Medical Laboratories.
9/20/2010: Specimen storage requirements changed from refrigerated to frozen.