

Post Transfusion Purpura (PTP) Panel

Versiti offers screening of patient sera for platelet-reactive antibodies by flow cytometry.

Post Transfusion Purpura (PTP) is a rare syndrome characterized by the development of dramatic, sudden, and self limiting thrombocytopenia 5-10 days after a blood transfusion in a patient with a previous history of sensitization by pregnancy or transfusion. Coincident with the thrombocytopenia is the development of a potent platelet specific antibody, usually anti-HPA-1a (PIA1). Although HPA-1a is the dominant platelet alloantigen incompatibility associated with PTP, cases involving many other human platelet antigens (HPA) are also detected. PTP occurs almost exclusively in adults, and females outnumber males by a ratio of at least 5 to 1.

Tests Included:

To demonstrate antibody in patient's serum: Platelet antibody detection and identification including alloantibodies reactive with alloantigens HPA-1a, -1b; HPA-2a, -2b; HPA-3a, -3b; HPA-4a; HPA-5a, -5b; HPA-15a, -15b; and other specificities on GPIIb/IIIa, GPIa/IIa, GPIb/IX, and GPIV (CD36). Reactivity against Class I HLA antigens is also detected.

To determine patient's platelet antigen type: Platelet alloantigen genotyping including alleles of HPA-1 through 6, HPA-9 and HPA-15.

Test method:

Antibody Detection - Flow Cytometry, Platelet Antibody Bead Array (PABA), Monoclonal Antibody Immobilization of Platelet Antigen (MAIPA).

HPA Genotyping - PCR + fluorescent allele – specific hydrolysis probes.

Specimen requirements:

10 mL of serum and 10 ml EDTA whole blood from patient.



SHIP

Shipping requirements:

Ship on an ice pack. Protect whole blood from freezing by wrapping in paper towels. Place the specimen and the test requisition into plastic bags and seal. Insert into an insulated container, place in a sturdy cardboard box, tape securely, and ship by overnight carrier. Ship the package in compliance with your overnight carrier guidelines. Send to:

Versiti Client Services
Platelet and Neutrophil Immunology Laboratory
638 N. 18th Street
Milwaukee, WI 53233
800-245-3117, ext. 6250



ORDER

Required forms:

Please complete all pages of the [requisition form](#).

CPT Codes/Billing/Turnaround time:

Test code: 5631

CPT codes: For recommended CPT codes, visit the [versiti.org/test-catalog](https://www.versiti.org/test-catalog)

Turnaround time: 10 days