Diagnostic testing for:
- Neonatal alloimmune thrombocytopenia (NAIT)
- Post-transfusion purpura (PTP)
- Refractoriness to platelet transfusion
- Heparin-induced thrombocytopenia (HIT)
- Alloimmune idiopathic thrombocytopenia purpura (AITP)

Medical consultation available

Test methods:
- GTI systems tests
  - detection of glycoprotein-specific platelet antibodies
  - detection of heparin-induced antibodies (PF4 ELISA)
- Platelet suspension immunofluorescence test (PSIFT)
- Solid-phase red cell adherence (SPRCA) assay
- Molecular analysis for HPA-1a/1b

For further information, contact:
Platelet Serology Laboratory (215) 451-4205
Dexter Facey (215) 451-2545
Dexter.Facey@redcross.org

American Red Cross Biomedical Services
Musser Blood Center
700 Spring Garden Street
Philadelphia, PA 19123-3594

National Reference Laboratory for Specialized Testing

Our laboratory specializes in granulocyte antibody detection and granulocyte antigen typing.

Indications for granulocyte serology testing include:
- Alloimmune neonatal neutropenia (ANN)
- Autoimmune neutropenia (AIN)
- Transfusion-related acute lung injury (TRALI)

Methodologies employed:
- Granulocyte agglutination (GA)
- Granulocyte immunofluorescence by flow cytometry (GIF)
- Monoclonal antibody immobilization of neutrophil antigens (MAINA)

TRALI investigations also include:
- HLA (PRA) Class I and Class II antibody detection

For further information, contact:
Neutrophil Serology Laboratory (651) 291-6797
Randy Schuller (651) 291-6758
Randy.Schuller@redcross.org

American Red Cross Biomedical Services
Neutrophil Serology Laboratory
100 South Robert Street
St. Paul, MN 55107

Internationally recognized, CLIA-licensed and AABB accredited molecular immunohematology lab offering:

- Tailored testing solutions with low, medium, and high resolution to best suit your patient-specific needs
- Skilled lab professionals at the forefront of molecular research and testing ready to provide expert consultation
- Convenient, single point ordering for service requests and electronic reporting
- FDA-approved tests coupled with lab-developed assays to increase the accuracy and sensitivity of the services
- Tests include
  - RBC phenotype prediction using Human Erythrocyte Antigen (HEA) panel
  - RHD genotyping for detection of RhD variants (including weak, partial, and Dnull)
  - RHCE genotyping to predict C, c, E, e, V, VS, hr^a, and hr^b antigen expression
  - ABO genotyping
  - Variant detection in other blood group systems and related genes (FY, MNS, LU, JK, YT, XK, KLF1)
  - HPA genotyping (HPA-1, 2, 3, 4, 5, 6, 9, 15) for neonatal alloimmune thrombocytopenia

American Red Cross Biomedical Services
National Molecular Laboratory
700 Spring Garden Street
Philadelphia, PA 19123-3594

(215) 451-4917
nationalmolecular@redcross.org
Antibody identification and problem resolution

HLA-A, B, C, and DR typing
HLA-disease association typing
Paternity testing/DNA

For information, contact:

Zahra Mehdizadehkashi
at (503) 280-0210

or write to:

Tissue Typing Laboratory
American Red Cross Biomedical Services
Pacific Northwest Region
3131 North Vancouver
Portland, OR 97227

Reference and Consultation Services

IgA testing is available to do the following:

- Identify IgA-deficient patients
- Investigate anaphylactic reactions
- Confirm IgA-deficient donors

Our ELISA for IgA detects protein to 0.05 mg/dL.

For additional information contact:

Dexter Facey (215) 451-2545
or e-mail:
Dexter.Facey@redcross.org

or write to:

American Red Cross Biomedical Services
Musser Blood Center
700 Spring Garden Street
Philadelphia, PA 19123-3594
ATTN: Dexter Facey

IgA Testing

Donor IgA Screening

- Effective tool for screening large volumes of donors
- Gel diffusion test that has a 15-year proven track record:
  Approximately 90 percent of all donors identified as
  IgA deficient by this method are confirmed by the more
  sensitive testing methods
- A small fee may be charged.

For additional information:

Lauren Smith
at (860) 519-4017
e-mail:
Lauren.Smith@redcross.org

or write to:

Reference Laboratory
American Red Cross Biomedical Services
Connecticut Region
209 Farmington Avenue
Farmington, CT 06032

Immunohematology

Phone, business hours:
(215) 451-4902
Fax: (215) 451-2538
immuno@redcross.org

Immunohematology Reference Laboratory
AABB, ARC, New York State, and CLIA licensed

24-HOUR PHONE NUMBER:
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Fax: (215) 451-2538

American Rare Donor Program

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National Reference Laboratory
for Blood Group Serology

American Red Cross Biomedical Services

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3131 North Vancouver
Portland, OR 97227

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