



Blood Products and Testing Services

Stanford Blood Center is a one-stop solution offering a wide range of custom blood products and testing services to support clinical and research communities.

SBC Biologics

- Research biologics
- Cellular therapy products
- Custom services

Special Donations

- Autologous donations
- Directed donations
- Therapeutic donations

Flow Cytometry

- Cell characterizations
- Special services

Lab Services

- Donor testing
- Infectious disease testing

Immunohematology Reference Lab (IRL)

Components Manufacturing

- Quality control (QC)

HLA Lab

- Solid organ and bone marrow transplant testing
- Disease association and pharmacogenetic testing



SBC Biologics

Products

Leukocytes

- GMP* and RUO leukopak from healthy donors
- RUO leukopak from donors mobilized with GCSF
- Primary cells (cryopreserved or freshly isolated): B cells, T cells (CD4+/CD8+), monocytes, NK cells, PBMC
- Buffy coats from whole blood
- LRS chambers — leukoreduction filter from platelet apheresis

Plasma

- Frozen, recovered, or liquid plasma, cryoprecipitate (AHF, IFC)

Platelets

- Collected using automated technology

Red blood cells

- CPD-preserved

Tubes

- Green Top 10ml (Heparin), Red Top 4ml (Clot), Purple Top 6ml (K2 EDTA), Yellow Top 8.5ml (ACDA-Liquid)
- Custom collection into researcher-provided tubes available with advance notice

Whole blood

- Fresh, 475mL (CPD anticoagulant)

Services

Stanford Blood Center (SBC) provides blood products for investigational use. Requests for blood products for clinical trials will be evaluated by SBC's Medical Director (IRB approval is required).

Services offered

- Complete Blood Count (CBC) with differential
- Deidentified donor demographic reports
- Recruitment and selection of donors
- Infectious disease panel reporting (by request)
- HLA-typing (customizable, see HLA Lab section)
- Medical consultations
- Special order requests
- Blood irradiation services available upon request

*21 CFR 1271 compliant, AABB Cell Sourcing Material Certification

Special Donations

While the vast majority of blood donations are allogenic, occasionally other types of donations may be required. Stanford Blood Center offers customized support for rare donation circumstances.

- Autologous donations
- Directed donations
- Therapeutic donations
- Granulocytes
- HLA-matched platelets

Flow Cytometry Testing

Stanford Blood Center provides specialized flow cytometry services to meet diverse research needs:

- Cell isolation and cryopreservation
- Cell sorting (operator-assisted)
- Research studies using flow cytometry
- Instrument access (with or without operator)
- LeucoCount
- Lymphocyte proliferation testing
- Special order requests



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STANFORD
BLOOD CENTER
SBC BIOLOGICS



Lab Services

Infectious disease testing

As one of California's leading donor screening laboratories, SBC provides comprehensive infectious disease testing* and other mandated donor testing using state-of-the-art equipment.

Testing services

- Serology:
 - Anti-HBc
 - Anti-HCV
 - Anti-HTLV ½
 - HBsAg
 - HIV ½ Combo Ag/Ab
 - T. Cruzi Ab
- Syphilis testing
- CMV Ab capture and IgG/IgM titer
- Extended RBC molecular blood typing
- Multiplex (HIV, HBV, HCV NAT)
- West Nile Virus
- HbA1c
- Total cholesterol

Immunoematology Reference Laboratory (IRL) Testing

Services include:

- ABO/Rh Discrepancy workup
- Complex Antibody Identification
- Positive DAT Antibody Identification
- Warm Autoantibody workup
- Antibody Titration (including prenatal titers)
- RBC Phenotype

* Accredited by AABB, certified by CLIA





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Blood Product Manufacturing

SBC's Manufacturing Laboratory processes and stores blood components in a regulated, controlled environment to ensure quality and compliance.

Routine and specialized products

- Red Blood Cells
 - 100% leukoreduced
 - Irradiated red cells
 - Genotyped antigen-specific units
- Platelets by apheresis
 - Pathogen reduced
 - HLA typed
- Pooled Cryoprecipitate
 - IFC pooled
 - AHF

- Plasma
 - Cryoreduced
 - Fresh
 - Frozen
 - Liquid transfusable
- Granulocytes

Distribution support

Our team collaborates with MDs, transfusion services, and research partners to ensure timely delivery and a sustainable blood supply.

HLA Lab

Stanford Blood Center's HLA Laboratory supports hematopoietic stem cell and solid organ transplants, transfusion medicine, and HLA-related disease association and pharmacogenetics.

Key features

- Accredited by ASHI, certified by CLIA, and licensed for high-complexity testing
- Serving numerous customers in the San Francisco Bay Area and beyond

Histocompatibility and immunogenetics testing to support transplantation

Comprehensive testing services for marrow/stem cell, kidney, heart, lung, intestine, and pancreas transplants:

- **Chimerism Testing:** STR and NGS-based profiles, including subsets*
- **HLA Typing:** High resolution (NGS), intermediate resolution (SSO), and low resolution (RT-PCR)*
- **Antibody Screening:** C1q and IgG Class I/II
- T and B cell flow cytometry crossmatching
- Other services:
 - Donor-specific antibody monitoring
 - KIR typing
 - DNA extraction and storage
 - Desensitization monitoring
 - Cell isolation and freezing
 - Platelet compatibility
 - Blood donor HLA antibody testing



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**Research options available*



Disease association and pharmacogenetic testing panels

SBC's HLA Lab provides a wide range of HLA disease association and pharmacogenetic testing panels, offering comprehensive and locus-specific HLA genotyping services. Our flexible testing solutions can be tailored to meet all customized HLA disease association and pharmacogenetic testing needs, ensuring accurate test results and interpretations for clinicians and researchers.

About the panels

Our most frequently requested panels are:

- Abacavir Hypersensitivity
- Allopurinol Hypersensitivity
- Spondyloarthropathies (Ankylosing Spondylitis, Reactive Arthritis, Juvenile Arthritis)

- Eye Disease HLA Association (Acute Anterior Uveitis, Behçet's Disease, Birdshot chorioretinopathy)
- Carbamazepine Hypersensitivity
- Celiac Disease
- Narcolepsy
- Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)
- Psoriasis
- IL-1 and IL-6 Inhibitors Hypersensitivity
- HLA typing Custom Panel (at intermediate resolution)
- HLA NGS typing (Full High Resolution)

Additional panels and/or medical consultation available on request.

How to Order

SBC Biologics

Hours: Monday–Friday, 8:00am–4:30pm

Phone: (650)-724-2997

Email: sbc-clients@stanford.edu

Online ordering: sbcbiologics.org

Special Donations

Hours: Monday–Friday, 8:00am–4:30pm

Phone: 650-723-6667

Email: specialdonations@stanford.edu

Flow Cytometry

Hours: Monday–Friday, 9:30am–6:00pm

Phone: (650)-723-6304

Email: sbc-flowlab@stanford.edu

HLA Lab

Ordering: stanfordbloodcenter.org/hla

Phone: (650) 724-6742

FAX: (650) 723-6350

Email: secure-HLAsupport@lists.stanford.edu

Pickup and Billing

Routine Product Order Pickup (Current Customers)

Monday – Thursday, 8:30am – 6:30pm

Friday, 8:30am – 3:30pm

Hours: Monday–Friday, 8:00am–4:30pm

Phone: (650)-723-7994

Email: bloodcenter-ar@stanford.edu

