



Histocompatibility Testing

A single source solution for your
laboratory testing needs



LabCorp is a leading global life sciences company that provides comprehensive clinical laboratory services. LabCorp has been conducting histocompatibility (human leukocyte antigen, or HLA) testing since 1982. Choose from LabCorp's comprehensive test menu to create your HLA test profile.

The LabCorp Advantage

- Experienced, board-certified PhD scientists to assist in interpretation of results and to recommend follow-up testing
- Custom reporting options
- Nationwide patient service center network
- Specimen collection kits available for remote patient collections
- Genetic counselors available for consultation
- EDI connectivity solutions
- Broad menu of clinical and specialty testing

HLA Testing Options

LabCorp employs DNA-based methods to perform HLA typing of Class I (A, B, C) and Class II (DR, DQ, DP) loci. LabCorp uses a diverse network of technology and sequencing to achieve desired HLA resolutions.

Disease Association

- Ankylosing Spondylitis: HLA-B*27
- Behçet's Disease: HLA-B*51
- Uveitis - Birdshot Chorioretinopathy: HLA-A*29
- Celiac Disease: HLA-DQA1*05:01 or 05:05, DQB1*02:01 or 02:02, and DQB1*03:02
- Narcolepsy: HLA-DQB1*06:02, HLA-DQA1*01:02
- Rheumatoid Arthritis: HLA-DRB1*04:01, *04:04, *04:05, *04:08, *01:01, *01:02, *09:01, *10:01 and *14:02
- HLA-A*02:01-Specific

Drug Association

- Abacavir Hypersensitivity: HLA-B*57:01
- Carbamazepine Hypersensitivity: HLA-B*15:02
- Allopurinol Hypersensitivity: HLA-B*58:01
- Immunosuppressive Response Association in Myelodysplastic Syndrome (MDS): HLA-DR15 (DR2)

HLA Antibody Detection

- Antibody Screen
- Antibody cPRA
- Antibody single antigen
- HLA C1q Binding

Molecular Typing technologies

- Next Generation Sequencing (NGS)
- Sequence-based Typing (SBT)
- Sequence-specific Primers (SSP)
- Sequence-specific Oligonucleotide Probes (SSOP)

Transplant Testing

- Screening of family and friends
- Transplant-level testing performed using double-blind procedures
- Confirmatory HLA typing for transplant centers
- Intermediate to high resolution HLA typing
- Retrospective typing for previously typed coded alleles
- Pre- and post-transplant engraftment monitoring + cell sorts
- Killer immunoglobulin-like receptor (KIR) genotyping
- ImmuKnow®
- Auto & Allo Crossmatch

LabCorp provides a single-source solution to fulfill your Histocompatibility laboratory needs

Customer Service

LabCorp's Histocompatibility customer service staff is dedicated to assisting with questions regarding Histocompatibility testing. LabCorp's scientists are also available to answer questions and consult with clients about challenging cases. This dedication ensures that clients receive personal and timely resolution to their questions or concerns. LabCorp's experienced customer service representatives are available **Monday through Friday from 8:00 AM to 6:00 PM (EST)** and can be reached at **800-533-1037** or by email, at **HLACS@LabCorp.com**.

Family and Friends Program

For patients in need of stem cell transplants, the most pressing need is to find suitable donors. In most cases, family members are first in the screening process. LabCorp's Family and Friends Program provides screening for potential donors at an affordable price, while assisting in the selection process. For more information about setting up a Family and Friends Program, contact LabCorp's Histocompatibility customer service team.

Post-transplant Engraftment Monitoring

Post-transplant engraftment monitoring uses PCR methodology with STR (short tandem repeat) loci to detect donor and recipient cells in the transplant patient's blood or marrow. This is useful for monitoring the success or failure of engraftment and relapse of disease.

- Rapid turnaround time
- The presence of less than 5% of donor or recipient DNA can be reliably detected.
- Multiple sample types can be tested, including whole blood, marrow, and fractionated cells. Buccal swabs can be used for pretransplant profiles.
- Easy-to-interpret report that indicates percentage of donor and host cells
- Verbal reports available on request

Patient Service Centers

With a network of more than 1,900 patient service centers, LabCorp can help bring you closer to potential donors.

These sites are strategically located throughout the United States to provide convenient access to specimen collection services. Our staff is committed to providing a professional environment during the specimen collection process.



Accreditations and Certifications

LabCorp is accredited for histocompatibility testing by the American Society for Histocompatibility and Immunogenetics (ASHI). In addition, LabCorp holds applicable licenses and certifications required to perform HLA testing in the United States, and internationally. Our credentials include

- American Society for Histocompatibility and Immunogenetics (ASHI) Accreditation for Histocompatibility
- Clinical Laboratory Improvement Amendments (CLIA)
- College of American Pathologists (CAP)
- New York State Department of Health certification (for both laboratory and scientists)
- ISO 17025

Quality Control

LabCorp maintains an extensive program of quality control implemented throughout the testing and evaluation process. These quality control protocols are routinely inspected by the American Society for Histocompatibility and Immunogenetics (ASHI), the College of American Pathologists (CAP), and the New York State Department of Public Health.



Histocompatibility Customer Service

Phone: **800-533-1037**

Email: **HLACS@LabCorp.com**