High-Throughput and Advanced Technologies to Streamline Biologics Discovery
Gain More Insights, Make Better Decisions

Therapeutic antibodies have recently emerged as one of the most successful strategies for the treatment of both hematologic cancers and solid tumors. Because they offer the promise of better specificity and safety than many other cancer treatments, this class of biologics is projected to continue increasing in importance.

Accelerate Your Antibody Development with Peace of Mind

For development of breakthrough therapeutics you need revolutionary technologies providing rapid, multifactorial results to enable deeper insights and ensure the choice, quality, and integrity of your biopharmaceutical product.

Ensure Confidence in Your Biotherapeutic, from Molecule to Market

More Insight Through Complete Cellular and Molecular Interaction Analysis Studies

Better Reproducibility with Orthogonal Assays and Integrated Data Acquisition

Higher Confidence in Quality, Purity, and Integrity of Your Product

Increase Productivity by Streamlining the Discovery and Development Workflow
Cell and Protein Analysis Platforms for Tracking Complex Biological Processes

The CellCelector Automated Cell Imaging and Picking Platform, Incucyte® Live-Cell Analysis, iQue® Advanced Flow Cytometry, and Octet® Label-Free Analysis systems offer unique, high-capacity cell and protein analysis solutions for characterizing cell phenotype and function and tracking complex biological processes.

**Antibody Library Screening**
Increase data throughput and quality by multiplexing antibody binding, specificity, and species cross reactivity.

**3D Tumor Spheroid Assays**
Track and quantify tumor spheroid formation, growth, and death in real time.

**Proliferation**
Measure cell proliferation in mono- or co-cultures, with or without labels.

**Complete with comprehensive analysis and visualization capabilities, our platforms will empower you with actionable results, faster!**

**Functional Profiling**
Easily go from high-content functional assays to actionable information that helps you select candidates with desirable biological activity.

**Cell Migration and Invasion**
Monitor and analyze migration and invasion with or without a chemotactic gradient.

**Apoptosis**
Investigate aberrations in apoptotic pathways in intact, living cells.

**Cell Line Development**
Select antibody producing clones upstream of cell line development by simultaneously detecting IgG titer, cell health, and viability.

**Antibody Internalization**
Quantify antibody internalization in 96- or 384-well formats.

**Cytotoxicity**
Detect real-time measurements of cell death based on cell membrane integrity.

**Legend:**
- CellCelector
- iQue®
- Incucyte®
- Octet®

For more information, please visit www.sartorius.com/biologics
iQue® Advanced Flow Cytometry Platform—Multiparametric and Actionable Results for More Insight
A high-throughput, suspension cell and bead-based analysis platform for antibody screening and functional profiling. The fastest way to generate high content data from small sample volumes.
- Screen your libraries in days, not months
- Sample volumes as low as 1 µL, reduce reagent costs
- Screen cells in suspension and targets in their natural conformation
See specific applications in “Cell and Protein Analysis Platforms” section.

Incucyte® Live-Cell Analysis System—See What Your Cells Are Doing and When
Enable real-time, live-cell imaging and analysis directly inside your incubator.
- Use with non-perturbing Incucyte® reagents to detect dynamic biological changes
- Measure kinetic effects of your antibody treatment on target cells
- Accommodates multiple users and applications in parallel
See specific applications in “Cell and Protein Analysis Platforms” section.

Octet® Bio-Layer Interferometry (BLI) and Surface Plasmon Resonance (SPR) Systems for Label-Free Detection — Perform Protein Quantitation, Screening and Kinetic Characterization Assays
Measure molecular interactions in real-time without the need for detection reagents and enable advanced, fast, and direct detection of specific biomolecules. Rapidly determine binding kinetics, product titer, screen for specific glycosylation content and other critical quality attributes (CQAs) perform off-rate analysis to select optimal clones using both purified and unpurified samples.

CellCelector Automated Cell Imaging and Retrieval Platform —Select and Screen Single Cells for Antibody Discovery
- High-throughput single plasma B-Cell and Hybridoma clone screening for antibody discovery
- Massively parallel co-cultivation of different cell types for functional studies
- Rare single cell detection and isolation
Molecule Development Workflow

Target Identification
Multiparametric and actionable results for more insight and better decisions

Library Screening
Screen whole-cell binding hybridoma, single B-Cells or phage library to identify positive hits

Hit Confirmation
Confirm hits in kinetic binding assays

Lead Optimization
Assess and optimize the properties of lead antibodies

Candidate Characterization
Analyze the structural properties of the lead antibodies as well as binding and functional properties

Find out more
For more information, please visit www.sartorius.com/biologics
Everyday Lab Essentials

Sartorius’ lab essentials help streamline routine and repetitive tasks and achieve more accurate results by:

- Increasing reproducibility of your results
- Avoiding contamination in your processes
- Increasing safety and reduce fatigue with ergonomic and easy-to-use products

Pipetting

- **Picus® Nxt Electronic Pipettes**
  Ensure accurate results and ergonomic workflows in pipetting-intensive in molecular and cell biology applications.

- **Midi Plus Pipette Controllers**
  Lightweight, easy-to-use pipette controllers for large volumes applications.

- **Cubis® Dosing System**
  Semi-automatic preparation and documentation of highly reproducible calibration standards for chromatography and spectroscopy.

Lab Weighing

- **Cubis® II Laboratory Balances**
  With 100% configurable hardware, software and connectivity, Cubis® II offers a high-performance balance that will align with your unique demands.

Lab Water Systems

- **Arium® Type 1 Ultrapure Water Systems**
  ASTM Type 1 water, as well as RNase/DNase and endotoxin-free water, to ensure consistent, high-quality results.

Mycoplasma Detection

- **Microsart® Mycoplasma qPCR kits**
  Keep your cell cultures contaminant-free and compliant.
Clarification, Concentration and Purification of Proteins

Sartoclear Dynamics® Lab and Sartolab® RF | BT Vacuum Filtration Units

Vivaspin® and Vivaflow® Ultrafiltration Devices

Vivapure® and Sartobind® Membrane Adsorbers

Minisart® Syringe Filters

Lab Instrument Services

Sartorius’ certified and accredited services ensure the quality of results, guarantee equipment longevity, and reduce downtime.

- Installation and Commissioning
- Qualification IQ | OQ
- Training
- Software Updates | Upgrades
- Maintenance and Service Agreements
- Calibration