



cell sciences®

cytokine center

Browse our web site of recombinant proteins, including cytokines, growth factors, chemokines and neurotrophins. Daily shipping and competitive pricing are offered. Bulk quantities of many proteins available. Cell Sciences also carries corresponding antibodies and ELISA kits.



www.cellsciences.com

LIST OF PROTEINS

Table listing various proteins such as Caspase-3, sFlt-1, IL-2, MEK, sRANK, etc. organized in multiple columns.



Proteins

Antibodies

ELISAs

Assay Services

MultiAnalyte Profiling

Activity Assays

Stem Cells

ELISpot Kits

Flow Cytometry

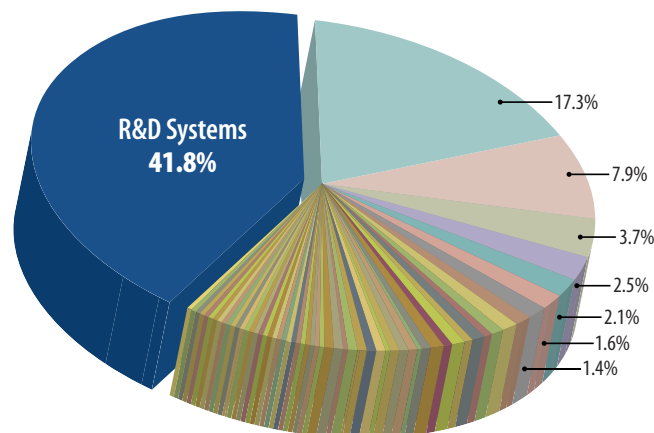
Cell Selection

R&D Systems Quantikine® ELISAs

The Most Referenced Immunoassays

A direct measure of product quality is the frequency of citations in the scientific literature. R&D Systems has more than 20 years of experience designing, testing, and optimizing the most cited ELISA kits in the world. Find out why scientists trust R&D Systems ELISAs more than any other brand.

R&D Systems is the Most Referenced ELISA Manufacturer



Approximately 42% of Referenced Immunoassays are Developed and Manufactured by R&D Systems. A survey of 860 manuscripts from 44 journals was conducted to compare the number of citations specifying the use of R&D Systems ELISAs to the number citing ELISAs from other commercial sources. A total of 433 ELISA citations referencing immunoassays from 66 different vendors were identified in the survey.

NEW Quantikine ELISA Kits

- α 1-Acid Glycoprotein
- Angiotensin-like 3
- Cathepsin V
- Clusterin
- Dkk-1
- EGF R/ErbB1
- EG-VEGF/PK1
- Fetuin A
- FGF-21
- Galectin-3
- Gas 6
- GDF-15
- IL-17A/F Heterodimer
- IL-19
- Lipocalin-2/NGAL
- MBL
- Proprotein Convertase 9/PCSK9
- Periostin/OSF-2
- Progranulin
- ST2/IL-1 R4
- Thrombomodulin/CD141
- Tie-1
- TIM-1/KIM-1

For more information visit our website at www.RnDSystems.com/go/ELISA

For research use only. Not for use in diagnostic procedures.

R&D Systems, Inc. www.RnDSystems.com

R&D Systems Europe, Ltd. www.RnDSystems.co.uk

R&D Systems China Co., Ltd. www.RnDSystemsChina.com.cn

Cell analysis just got easier

The new IN Cell Analyzer 2000 makes previously challenging cell analysis a thing of the past by offering significant throughput gains compared to typical lamp based imaging systems, while still delivering enabling features for your research assays.

From organelles to cells, to tissues and whole organisms – from fixed end-point assays to extended live cell studies – from manual microscopy to automated high-content screening, IN Cell Analyzer 2000 offers you the performance you need for all your screening and research – making your cell analysis faster and easier.

At GE Healthcare Life Sciences, our focus is on helping scientists achieve even more, faster. It's a commitment we have in our genes. And all this is backed by the service, support, and investment for the future that being part of GE can bring.

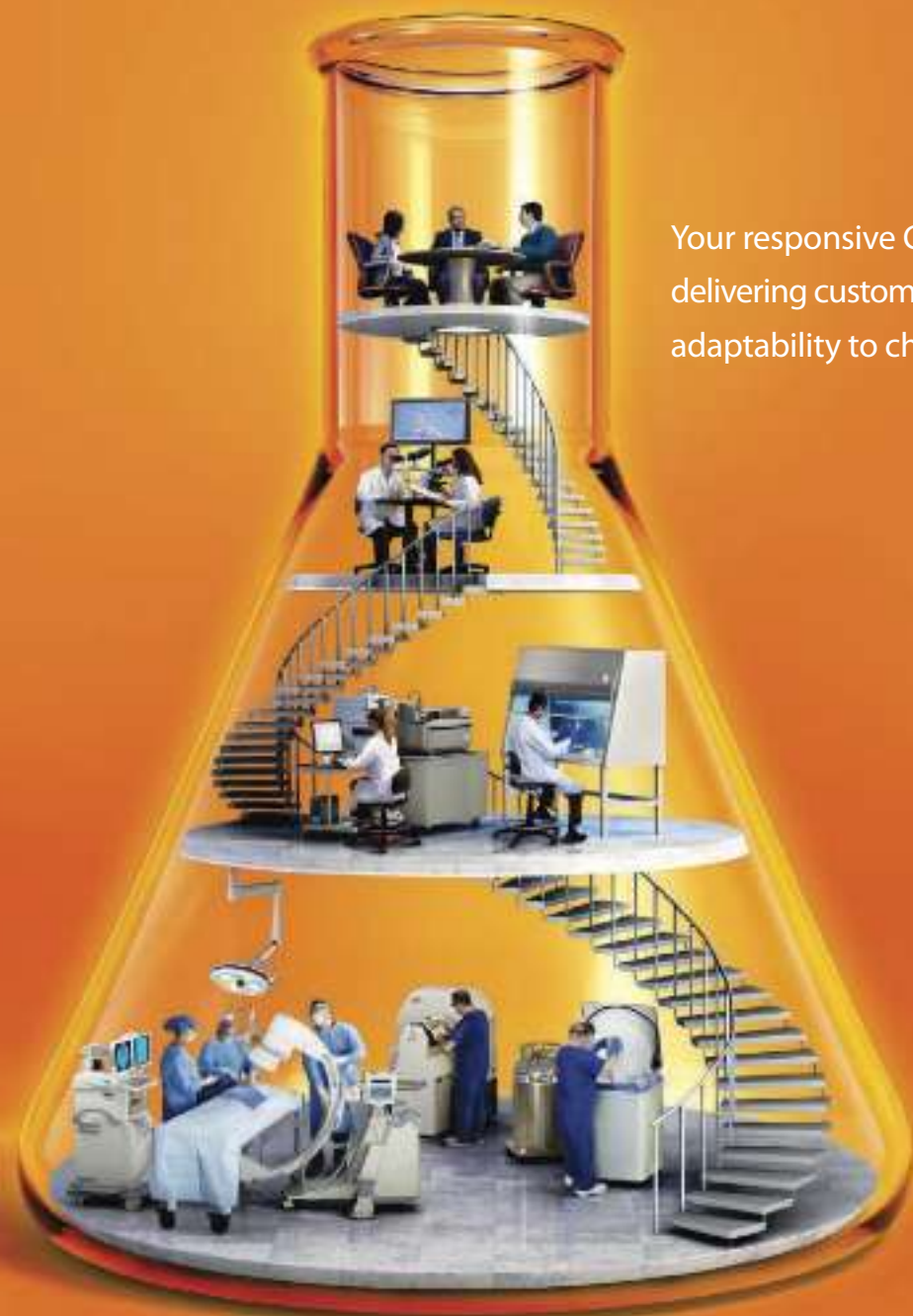
Cell analysis just got easier. Find out more. Visit www.gelifesciences.com/incell

| ÄKTA | Amersham | Biacore | **IN Cell Analysis** | Whatman | GE Service |

INtroducing the new IN Cell Analyzer 2000



Preclinical research customized for you.



Your responsive CRO partner,
delivering customized solutions and
adaptability to changing needs.

MPI Research is the CRO that defines responsiveness, moving your drug development program forward with customized solutions for all your preclinical research. From discovery services to safety evaluation, including analytical and bioanalytical support, you can count on MPI Research for quick quotes, frequent updates, rapid turnaround, and scientific rigor. At every stage, and on every level, we adapt to your most exacting needs.

Explore the breadth of capabilities that make us your responsive CRO at www.MPIResearch.com.

MPI
RESEARCH

Customized. Responsive. On-Time.™

Imagine if Otto Warburg had a Seahorse XF Extracellular Flux Analyzer...



Finally, a real-time, kinetic measurement of the **Warburg Effect**, glucose & glutamine addictions, and fatty acid oxidation of cancer cells in a microplate.

Seahorse's award winning XF Extracellular Flux Analyzers provide an easy way to:

- Evaluate the role of oncogenes and tumor suppressor genes in energy metabolism and tumorigenesis
- Detect HIF-1 and drug mediated effects on mitochondrial respiration and glycolysis
- Determine which energy substrates are preferentially used by tumor cells
- Measure the dynamic contributions of OXPHOS & aerobic glycolysis
- Validate genes that target tumor metabolism

Measuring **cancer metabolism** is so easy now!

**Webinars
On-Demand**
See our **Cancer
Related Webinars at**
[seahorsebio.com/
science](http://seahorsebio.com/science)

Biotransporters.

Boost your PK/PD studies to new levels. Introducing the **ADME Knockout Rat** collection from **SAGE™ Labs**.



SAGE™ LABS
Sigma Advanced
Genetic Engineering

Explore our collection of knockout rat models at wherebiobegins.com/bioengineering



Learn how current events are impacting your work.

ScienceInsider, the new policy blog from the journal *Science*, is your source for breaking news and instant analysis from the nexus of politics and science.

Produced by an international team of science journalists, *ScienceInsider* offers hard-hitting coverage on a range of issues including climate change, bioterrorism, research funding, and more.

Before research happens at the bench, science policy is formulated in the halls of government. Make sure you understand how current events are impacting your work. Read *ScienceInsider* today.

www.ScienceInsider.org

ScienceInsider
Breaking news and analysis from the world of science policy




P-1000
Next Generation
Micropipette
Puller



The next generation in micropipette pulling is here NOW!

NEW

FEATURES

- Color touch-screen interface
- Safe heat mode to protect and extend filament life
- Pipette Cookbook program directory
- Line repeat mode simplifies programming
- Glossary with micropipette and puller terminology
- Copy & Paste function for writing new programs
- Two symmetrical pipettes with each pull
- Memory storage for up to 100 programs

SUTTER INSTRUMENT

PHONE: 415.883.0128 | FAX: 415.883.0572
EMAIL: INFO@SUTTER.COM | WWW.SUTTER.COM

**1,000s
OF GRANTS
MILLIONS
IN FUNDING**



GrantsNet.
The first comprehensive
science grants database.

GrantsNet is expanding its listings of some 900 funding programs from private foundations and not-for-profit organizations to include 400 to 500 new entries from the grants.gov site. **This provides the first comprehensive database of funding opportunities** to research scientists and administrators, career counselors, financial aid specialists, and undergraduate and graduate students. For listings, go to www.grantsnet.org

Science Careers
From the journal *Science* 

SNAP-FREEZE TISSUE CLAMP

The BioSqueezer is used to quickly freeze animal and human tissue samples. Tissue can be compressed into a thin disc under the metal clamp head that is pre-cooled in liquid nitrogen or dry ice. The tissue freezes in less than one second, thus capturing a snapshot of the metabolic events in the cells. The hard frozen disc is easily fragmented or ground without thawing for subsequent extraction of labile nucleic acids, proteins, and intracellular metabolite products.

BioSpec Products

For info: 800-617-3363 | www.biospec.com



LABORATORY CHILLERS

The new Polar Series thermostatic laboratory chillers, the Accel 250 and Accel 500, have a temperature range from -10°C to 80°C, allowing users to select the optimal temperature set-point for each application. Thermostatic technology enables fast temperature ramping, and this delivers immediate heating and cooling for an extremely efficient workflow. Furthermore, the energy-saving mode in the series makes it an environmentally friendly option for any laboratory requiring precise temperature control. The Polar Series is ideal for an expansive range of applications, including chemical reaction control, separations, spectroscopy, and surface science. These easy-to-use laboratory chillers are programmable via an intuitive user interface, making it simple to set required temperature parameters. A compact footprint and minimal noise allow for convenient placement within labs, increasing laboratory efficiency. This range of CE- and CSA-compliant chillers has an intuitive plug-and-play design, eliminating any lengthy installation processes.

Thermo Fisher Scientific

For info: 800-258-0830 | www.thermoscientific.com/tc

CELL SIGNALING ASSAYS

DetectX Chemiluminescent assays allow detection of important cell signaling molecules, Cyclic AMP (cAMP), Cyclic GMP (cGMP), and Prostaglandin E₂. The DetectX Chemiluminescent Prostaglandin E₂ kits, K018-C1 and K018-C5, quantitatively measure less than 0.5 femtogram of PGE₂ per sample, with an assay range from 320 pg/mL to 0.5 pg/mL, in cells, tissue, saliva, and plasma by using the stable liquid assay components supplied in the kits. The DetectX Chemiluminescent Direct cAMP kits, K019-C1 and K019-C5, quantitatively measures about four times lower levels of cAMP than other assays—less than 1 femtomole of cAMP per sample—with an assay range from 15 pmol/mL to 0.039 pmol/mL. The DetectX Chemiluminescent Direct Cyclic GMP kits, K020-C1 and K020-C5, quantitatively measures less than 1 femtomole of cGMP per sample in cells by simply adding the supplied diluent and transferring to the assay components supplied in the kit, with an assay range from 3 pmol/mL to 0.031 pmol/mL.

Arbor Assays

For info: 734-677-1774 | www.arborassays.com

STAIN-FREE PRECAST GELS

With the recently launched Criterion Tris-Glycine eXtended (TGX) Stain-Free precast gels, researchers can achieve protein separation, gel imaging, and data analysis in 25 minutes—without the need for staining. Current protein electrophoresis staining and destaining protocols can take up to three hours to complete: handcast and precast gels can take 45–60 minutes to run and traditional Coomassie staining can add another two hours of work before analysis. In addition to its speed, Criterion TGX Stain-Free precast gels outperformed the Coomassie staining system in terms of sensitivity, reproducibility, and performance. Unlike other precast gels, which require expensive specialized buffer systems and stains, the gels use the standard Laemmli buffer system and do not require staining, which keeps running costs low. Criterion TGX Stain-Free gels are available in 4 to 15 percent and 4 to 20 percent as well as a unique formulation, Any kD, that allow the resolution of proteins across a wide range of molecular weights (10–250 kD).

Bio-Rad Laboratories

For info: 800-424-6723 | www.myelectrophoresis.com

MULTIDRUG RESISTANT BACTERIA

The *Klebsiella pneumoniae* Superbug (NDM-1) is now available through ATCC. Antibiotic-resistant, gram-negative bacteria including *Klebsiella*, *Acinetobacter*, *Pseudomonas*, and *Escherichia coli* isolates continue to emerge with increasing levels of drug-resistance due to horizontal transfer of known and novel resistance mechanisms, such as NDM-1. Isolates with NDM-1 have recently spread from India to Europe, to the United States, and to Japan. The newly available multidrug resistant, human clinical isolate *Klebsiella pneumoniae* is positive for New Delhi metallo-β-lactamase (NDM-1). The NDM-1 enzyme can inactivate all classes of β-lactams and all carbapenems, except for aztreonam, and this gene can easily transfer between bacterial species. The culture's genomic DNA is also available. The *Klebsiella pneumoniae* strain has the *bla*NDM-1 gene (confirmed by polymerase chain reaction [PCR] and nucleotide sequencing), and is negative for the *bla*KPC gene (confirmed by PCR).

ATCC

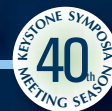
For info: 800-638-6597 | www.atcc.org

Electronically submit your new product description or product literature information! Go to www.sciencemag.org/products/newproducts.dtl for more information.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and governmental organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier.



TOP-QUALITY LIFE SCIENCE RESEARCH CONFERENCES • PRICELESS INTERACTION



Metabolic Responses to Extreme Conditions

Scientific Organizers: **John R. Speakman, Jan Nedergaard and Sandra L. Martin**
April 1–5, 2011 • Big Sky Resort • Big Sky, Montana • USA
www.keystonesymposia.org/11D4



Immunoregulatory Networks

Scientific Organizers: **Dario A.A. Vignali, Steven F. Ziegler and Hilde Cheroutre**
April 1–6, 2011 • Beaver Run Resort • Breckenridge, Colorado • USA
www.keystonesymposia.org/11D5



Drugs from Bugs: The Anti-Inflammatory Drugs of Tomorrow

Scientific Organizers: **Padraic G. Fallon, Grant McFadden and Amanda E.I. Proudfoot Fichard**
joint with: Evolving Approaches to Early-Stage Drug Discovery
Scientific Organizers: **Craig W. Lindsley and Linda Brady**
April 3–7, 2011 • Snowbird Resort • Snowbird, Utah • USA
www.keystonesymposia.org/11Z1 and www.keystonesymposia.org/11Z2



B Cells: New Insights into Normal versus Dysregulated Function

Scientific Organizers: **David J. Rawlings, Frances E. Lund, Stuart G. Tangye and John G. Monroe**
April 12–17, 2011 • Fairmont Chateau Whistler • Whistler, British Columbia • Canada
www.keystonesymposia.org/11D6



Omics Meets Cell Biology

Scientific Organizers: **Anne-Claude Gavin and Charlie M. Boone**
May 8–13, 2011 • Alpbach Congress Centrum • Alpbach • Austria
www.keystonesymposia.org/11E1



Lipid Biology and Lipotoxicity

Scientific Organizers: **Scott A. Summers and Rudolf Zechner**
May 15–20, 2011 • Ireland's National Events & Conference Centre • Killarney • Ireland
www.keystonesymposia.org/11E2

Pathogenesis of Influenza: Virus-Host Interactions

Scientific Organizers: **Siamon Gordon, Malik Peiris and Kanta Subbarao**
May 23–28, 2011 • Sheraton Hong Kong Hotel & Towers • Hong Kong • China
www.keystonesymposia.org/11E3

Changing Landscape of the Cancer Genome

Scientific Organizers: **Lynda Chin, Christoph Lengauer and Michael Stratton**
June 20–25, 2011 • Boston Park Plaza & Towers • Boston, Massachusetts • USA
www.keystonesymposia.org/11F3

KEYSTONE  SYMPOSIA™
on Molecular and Cellular Biology
Accelerating Life Science Discovery

www.keystonesymposia.org • 1.800.253.0685 • 1.970.262.1230



XP™ Monoclonal Antibodies, *eXceptional Performance™*

Unparalleled product quality, validation, and technical support.

XP™ monoclonal antibodies are a line of high quality rabbit monoclonal antibodies exclusively available from Cell Signaling Technology. Any product labeled with XP has been carefully selected based on superior performance in all approved applications.

XP monoclonal antibodies are generated using XMT™ Technology, a proprietary monoclonal method developed at Cell Signaling Technology. This technology provides access to a broad range of antibody-producing B cells unattainable with traditional monoclonal technologies, allowing more comprehensive screening and the identification of XP monoclonal antibodies.

For additional information and a complete list of available XP™ Monoclonal Antibodies visit...

www.cellsignal.com

eXceptional specificity

As with all of our antibodies, the antibody is specific to your target of interest, saving you valuable time and resources.

+ eXceptional sensitivity

The antibody will provide a stronger signal for your target protein in cells and tissues, allowing you to monitor expression of low levels of endogenous proteins, saving you valuable materials.

+ eXceptional stability and reproducibility

XMT Technology combined with our stringent quality control ensures maximum lot-to-lot consistency and the most reproducible results.

= eXceptional Performance™

XMT Technology coupled with our extensive antibody validation and stringent quality control delivers XP monoclonal antibodies with eXceptional Performance in the widest range of applications.

Above: Confocal IF analysis of rat cerebellum using β 3-Tubulin (D71G9) XP™ Rabbit mAb #5568 (green) and Neurofilament-L (DA2) Mouse mAb #2835 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Cell Signaling

TECHNOLOGY®