



The Power to Question

santa cruz biotechnology, inc.

siRNA gene silencers and immunodetection reagents

Tumor Suppressors/Apoptosis

Cell Cycle Proteins

Transcription Regulators

Homeodomain Proteins

Steroid Receptors

Kinases and Phosphatases

Growth Factors and Hormones

Membrane Receptors

Signaling Intermediates

GDP/GTP Binding Proteins

Neurobiology

Channel Proteins

Lymphocyte Signaling

Cell Adhesion Proteins

Structural Proteins

SEE OUR WEB SITE FEATURING:

11,915 monoclonal antibodies

19,623 polyclonal antibodies

13,269 siRNAs and support products

www.scbt.com

HEADQUARTERS

TEL: 831.457.3800

TOLL FREE: 1.800.457.3801

FAX: 831.457.3801

EMAIL: scbt@scbt.com

EUROPEAN SUPPORT

TEL: +49.6221.4503.0

TOLL FREE: +00800.4573.8000

FAX: +49.6221.4503.45

EMAIL: europe@scbt.com

ASIAN SUPPORT

JAPAN TOLL FREE: (010) 800.40402026

S. KOREA TOLL FREE: 00798.1.1.002.0297

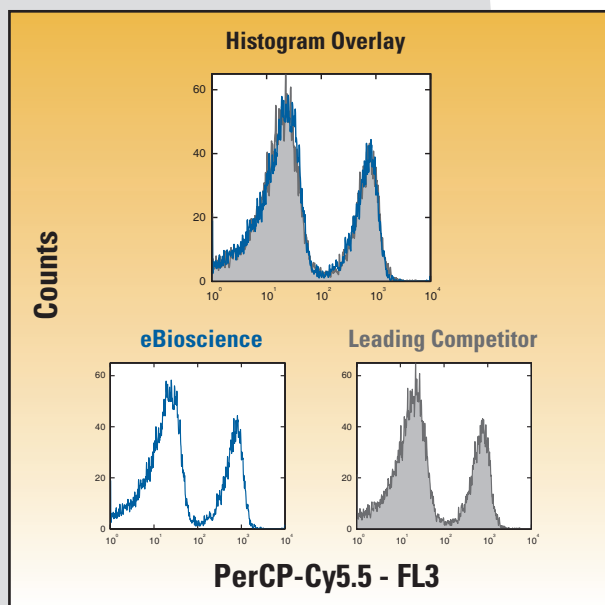
CHINA TOLL FREE: 10.800.711.0752 or
10.800.110.0694

EMAIL: asia@scbt.com

Hey! Have you heard that eBioscience has launched PerCP-Cy5.5 conjugates?

Really?! Finally, another choice.

Data Comparison



Specificities

HUMAN	MOUSE
CD3	CD3
CD4	CD4
CD8	CD8
CD14	CD19
CD19	CD45
CD20	CD45R/B220
CD25	CD90
CD33	CD127
CD45	IFN- γ
CD127	IFN- γ
IFN- γ	Ly-6G/Gr1
Streptavidin	

The choice is clear - eBioscience

For more details and to see other new products, visit www.ebioscience.com/PerCP-Cy55/J1.

eBioscience
the standard of excellence™

Now more than ever.



MoFlo™ XDP Cell Sorter



CyAn™ ADP Analyzer



FC 500 MPL Analyzer



EPICS™ XL-MCL™ Analyzer



Quanta™ SC MPL Analyzer



Vi-CELL® Cell Viability Analyzer



Z™ Series Coulter Counter



Think Beckman Coulter for flow cytometry.

No one can meet your diverse cell analysis needs like Beckman Coulter. For flexibility and reliability, depend on our expanding family of flow cytometry solutions that range from affordable analyzers to a cell sorter that sets the standard. You can always count on us—whether you're looking for instrumentation, reagents for your research and clinical needs, or the security of Beckman Coulter's global network of service and support. Discover all you need all in one place at www.beckmancoulter.com/flowcytometry

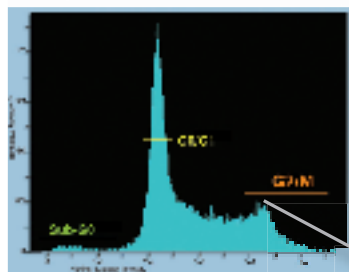


Genomics Proteomics **Cell Analysis** Centrifugation Lab Tools Particle Characterization Bioseparation Lab Automation

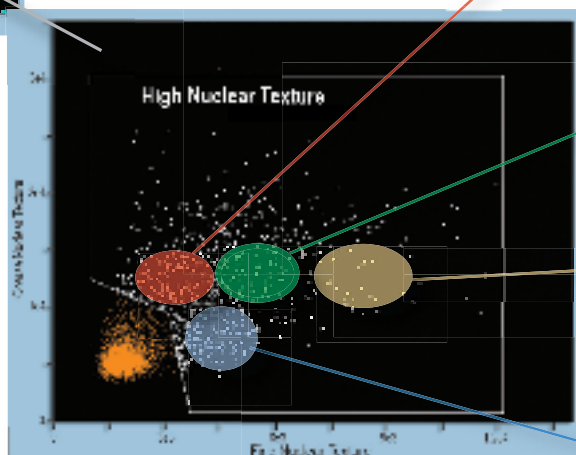
Simplify • Automate • Innovate

In flow cytometry, every dot tells a story ...

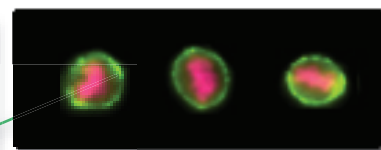
The ImageStream® system



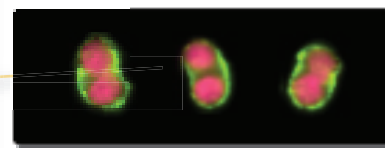
HL60 cells were labeled with AF488 anti-HLA to reveal the cell membrane and with DRAQ5™ to stain the nucleus. Labeled cells were analyzed on the ImageStream system. The DNA content histogram (above) clearly separates the major cell cycle subpopulations. G2/M cells were plotted (right) to display the high nuclear texture fraction, from which cells in the progressive stages of mitosis were identified and highlighted on the plot. Composite cell images (far right) show HLA and nuclear staining.



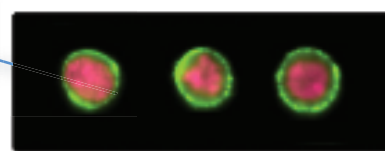
Anaphase



Metaphase



Telophase

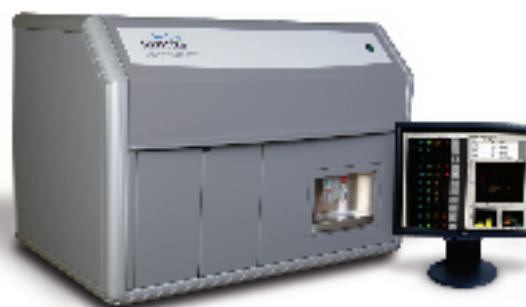


Prophase

For over 30 years, flow cytometry has been about the dots. But behind every dot is a cell, rich in morphological complexity. Now, the ImageStream imaging flow cytometer from Amnis makes this wealth of biological information directly accessible. By combining quantitative microscopy and the statistical power of flow cytometry in a single platform, the ImageStream offers you completely new options for cell analysis.

Study the intracellular distribution of markers, analyze interactions between cells, quantitate subtle morphologic changes in the cell and its structures, and much more. The range of applications is extensive, as is the growing list of published science.

While we can't guarantee that every experiment you do with the ImageStream system will turn into a publication, we do guarantee that when you analyze your cells on the ImageStream you will see more -- and know more -- than you ever thought possible.



To learn more, visit www.amnis.com or call 800-730-7147 toll-free in the US or +1 206-374-7000 outside the US.

ImageStream. Think outside the dot.



Amnis®, ImageStream® and IDEAS® are registered trademarks of Amnis Corporation. DRAQ5 is a trademark of Biostatus, Ltd.



Encore

The new BD FACSaria II accompanies your best performance yet.



Helping all people
live healthy lives

Designed in collaboration with our customers, the world's most popular cell sorter can now play an even more important role in your research.

The only true fixed-alignment cuvette is now combined with multiple improvements, including a new fluidics design for easier aseptic setup and cleaning and a new 375-nm near-UV laser to enhance side population analysis. New

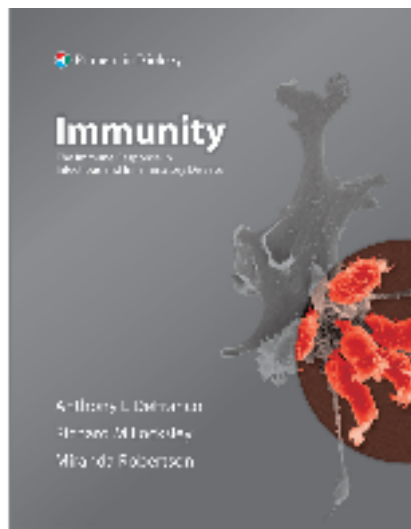
Cytometer Setup and Tracking software enhances workflow and productivity by automating QC and experiment setup.

BD FACSaria™ II continues to be the best choice for ease of use, sensitivity and resolution, and for consistent results across a broad range of applications. Experiment with the new BD FACSaria II and see how brilliantly it can perform for you. Visit bdbiosciences.com/aria2.

Class I (1) laser product.

This product is for Research Use Only. Not for use in diagnostic or therapeutic procedures.
BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2008 BD
23-9015-00

BD Biosciences
2350 Qume Drive
San Jose, CA 95131
bdbiosciences.com



IMMUNITY is an introduction to immunology for undergraduates and medical students, with special emphasis on the immune response to infection. The book follows the course of an immune response, with a major chapter on innate immunity that allows the later chapters on the activation and effector actions of lymphocytes to illustrate how adaptive immune responses are built on innate mechanisms. Chapters on the immune response to specific microorganisms illustrate how the mechanisms described in earlier chapters are coordinated in response to some important human pathogens. The book concludes with chapters on immune regulation and immunological disease, succinctly covering the most clinically important hyperreactive and deficiency diseases, and the design of vaccines.

Immunity The Immune Response in Infectious and Inflammatory Disease

Anthony L. DeFranco, Richard M. Locksley,
and Miranda Robertson

"I was very, very impressed with what I saw. The authors seem to have achieved the difficult blend of simplicity and detail needed in a textbook. The figures are outstanding."

Marc K. Jenkins, University of Minnesota (on Chapter 5)

"This is really fantastic—one of the best overviews of the roles of complement I have come across. It is very hard to find a good overview that doesn't get bogged down in all the details, and this succeeds beautifully! For the first time, I felt like the different complement pathways made sense and fit together."

Leslie Berg, University of Massachusetts Medical School (on Chapter 3)

"... the authors have managed to explain a potentially difficult topic in simple terms that students/scientists should find interesting and informative."

Michael Carroll, Harvard University Medical School (on Chapter 3)

Among Our Adopters:

Brigham Young University
Georgetown University
Johns Hopkins University
School of Public Health
Minnesota State
University–Mankato
New York University
The Rockefeller University
Tufts University School of
Medicine
University of Alberta
Edmonton Medical School
University of Chicago
University of Iowa College
of Medicine
University of Kentucky
College of Medicine
University of Massachusetts
Medical School
University of Toledo College
of Pharmacy
University of Washington
School of Medicine
University of Wisconsin–
Madison, School of
Veterinary Medicine
Weber State University
Weill Cornell Medical
College



In North America



SINAUER ASSOCIATES, INC.
PO Box 407
23 Plumtree Road
Sunderland, MA 01375
USA
Phone: (413) 549-4300
Fax: (413) 549-1118
orders@sinauer.com
www.sinauer.com

Published by



NEW SCIENCE PRESS LTD
Middlesex House
34-42 Cleveland Street
London W1T 4LB
UK
Phone: +44(0)20-7323-0323
Fax: +44(0)20-7631-9976
info@new-science-press.com
www.new-science-press.com

The Primers in Biology employ a modular design in which chapters are divided into topics, each occupying one two-page spread that includes the relevant text, illustrations (in full color), definitions, and references.

CONTENTS

1. Overview of the Immune Response — 2. Signaling and Adhesive Molecules of the Immune System — 3. Innate Immunity — 4. Adaptive Immunity and the Detection of Infection by T Lymphocytes — 5. Activation and Effector Actions of T Cells — 6. B Cells and Humoral Immunity — 7. Development of Lymphocytes and Selection of the Receptor Repertoire — 8. Specialized Lymphocytes in Early Responses and Homeostasis — 9. The Immune Response to Bacterial Infection — 10. The Immune Response to Viral Infection — 11. The Immune Response to Fungal and Parasitic Infection — 12. Tolerance and Autoimmunity — 13. Allergy and Hypersensitivity — 14. Transplantation Immunology, Tumor Immunity and Vaccination

April 2007, 387 pages, 367 illustrations
ISBN 978-0-87893-179-8, \$49.95 paper



cell sciences®

www.CytokineCenter.com

Cytokine Center

Browse our web site with over 1300 proteins, including recombinant 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 cytokine ELISA kits.



PROTEINS

4-1BBL
4-1BB Receptor
6 Ckine
ACAD8
ACAT2
gAcrp30/Adipolean
Activin A
Activin B
ACY1
ADAT1
Adiponectin
ADRP
AITRL
Akt1
Alpha-Feto Protein (AFP)
Alpha-Galactosidase A
Angiopoietin-1 (Ang-1)
Angiopoietin-2 (Ang-2)
Angiostatin K1-3
Annexin-V
apo-SAA
Apolipoprotein A-1
Apolipoprotein E2
Apolipoprotein E3
Apolipoprotein E4
APRIL
Artemin
ATF2
Aurora A
Aurora B
BAFF
BAFF Receptor
BCA-1 / BLC / CXCL13
BCMA
BD-1
BD-2
BD-3
BDNF
Betacellulin
BMP-2
BMP-4
BMP-6
BMP-7
BMP-13
sBMPR-1A
Brain Natriuretic Protein
BRAK
Breast Tumor Antigen
C5a
C5L2 Peptide
C-10
C-Reactive Protein
C-Src
Calbindin D-9K
Calbindin D-28K
Calbindin D-29K
Calmodulin
Calcitonin Acetate
Carbonic Anhydrase III
Carcino-embryonic Antigen
Cardiotrophin-1
Caspase-3
Caspase-6
CD4
CD14
CD22
CD40 Ligand / TRAP
CD95 / sFas Ligand
CD105 / Endoglin
CHIPS
CNTF
Collagen
CREB
CTACK / CCL27
CTGF
CTGFL / WISP-2
CTLA-4 / Fc
CXCL16
CYR61
Cytokeratin 8
DEP-1
Desmopressin
Disulfide Oxidoreductase
E-selectin
ECGF
EGF
Elafin / SKALP
EMAP-II
ENA-78 / CXCL5
Endostatin
Enteropeptidase
Eotaxin / CCL11
Eotaxin-2
Eotaxin-3 (TSC)
Epigen
Epiregulin
EPHB2
EPHB4
Eptifibatide
Erk-2
Erythropoietin (EPO)
Exodus-2
Fas Ligand
Fas Receptor
FGF-1 (acidic)
FGF-2 (basic)
FGF-4
FGF-5
FGF-6
FGF-7 / KGF
FGF-8
FGF-9
FGF-10
FGF-16
FGF-17
FGF-18
FGF-19
FGF-20
sFGFR-1 (Il1c) / Fc Chimera
sFGFR-2 (Il1c) / Fc Chimera
sFGFR-3 / Fc Chimera
sFGFR-4 / Fc Chimera
sFlt-1 (native)
sFlt-1 (D3)
sFlt-1 (D4)
sFlt-1 (D5)
sFlt-1 (D7)
Flt3-Ligand
sFlt-4
sFlt-4 / Fc Chimera
Follistatin
FSH
Fractalkine / CX3C

G-CSF
 α -Galactosidase A
Galectin-1
Galectin-3
Gastrointestinal CA
GCP-2
GDF-3
GDF-9
GDF-11
GDNF
GLP-1
Glucagon
GM-CSF
Goserelin
GPBB
Granzyme B
GRO α
GRO β
GRO γ
GRO/MGSA
Growth Hormone
Growth Hormone BP
GST-p21/WAF-1
HB-EGF
HCC-1
HGF
Histidyl-tRNA synthetase
Histrelin
HRG1- β 1
I-309
I-TAC
IFN- α
IFN- α A
IFN- α 2a
IFN- α 2b
IFN- β
IFN- γ
IFN-Omega
IGF-I
IGF-II
proIGF-II
IGFBP-1
IGFBP-2
IGFBP-3
IGFBP-4
IGFBP-5
IGFBP-6
IGFBP-7
IL-1 α
IL-1 β
IL-2
IL-3
IL-4
sIL-4 Receptor
IL-5
IL-6
sIL-6 Receptor
IL-7
IL-8 (72 a.a.)
IL-8 (77 a.a.)
IL-9
IL-10
IL-11
IL-12
IL-13
IL-13 analog
IL-15

IL-16 (121 a.a.)
IL-16 (130 a.a.)
IL-17
IL-17B
IL-17D
IL-17E
IL-17F
IL-19
IL-20
IL-21
IL-22
IL-31
Insulin
IP-10
JE
JNK2a1
JNK2a2
KC / CXCL1
KGF
L-asparaginase
LAG-1
LALF Peptide
LAR-PTP
LBP
LC-1
LD-78 β
LDH
LEC / NCC-4
Leptin
LIGHT
LIX
LKM
LL-37
Lungkine / CXCL15
Lymphotactin
sLYVE-1
M-CSF
MCP-1 (MCAF)
MCP-2
MCP-3
MCP-4
MCP-5
MDC (67 a.a.)
MDC (69 a.a.)
MDH
MEC
Mek-1
MIA
Midkine
MIG / CXCL9
MIP-1 α / CCL3
MIP-1 β / CCL4
MIP-3 / CCL23
MIP-3 α / CCL20
MIP-3 β / CCL19
MIP-4 (PARC) / CCL18
MIP-5 / CCL15
MMP-3
MMP-7
MMP-13
Myostatin
Nanog
NAP-2
Neurturin
NFAT-1
 β -NGF
NOGGIN
NOV
NP-1
NT-1/BCSF-3
NT-3
NT-4
Ocreotide
Oncostatin M
Osteoprotegerin (OPG)
OTOR
Oxytocin
p38- α
PAI-1
Parathyroid Hormone
PDGF-AA
PDGF-AB
PDGF-BB
PDGF-CC
Persephin
PF-4
PIGF-1
PIGF-2
PKA α -subunit
PKC- α
PKC- γ
Pleiotrophin
PLGF-1
Polymyxin B (PMB)
PRAS40
PRL-1
PRL-2
PRL-3
Prokineticin-2
Prolactin
Protirelin
PTHrP
PTP1B
PTP-1A2
PTP-MEG2
PTP-PEST
sRANK
sRANKL
RANTES
REL μ - α
REL μ - β
Resistin
LEC / NCC-4
RPTP β
RPTP γ
RPTP μ
SCF
SCGF- α
SCGF- β
SDF-1 α
SDF-1 β
Secretin
SF20
SHP-2
STAT1
c-Src
TACI
TARC
TC-PTP
TECK
TFF2
TGF- α
TGF- β 1
TGF- β 2
TGF- β 3
Thymosin α 1
sTIE-1/Fc Chimera
sTIE-2/Fc Chimera
TL-1A
TNF- α
TNF- β
sTNF-receptor Type I
sTNF-receptor Type II
TPO
sTRAIL R-1 (DR4)
sTRAIL R-2 (DR5)
TRAIL/Apo2L
TSG
TSH
TSLP
TWEAK
TWEAK Receptor
Urokinase
EG-VEGF
VEGF121
VEGF145
VEGF165
VEGF-C
VEGF-C I125
VEGF-E
HB-VEGF-E
sVEGFR-1
sVEGFR-2
sVEGFR-3
Visfatin
WISP-1
WISP-2
WISP-3
WNT-1

480 Neponset Street, Building 12A, Canton, MA 02021 • TEL (781) 828-0610 • EMAIL info@cellsciences.com

CALL TOLL FREE (888) 769-1246 • FAX (781) 828-0542 • VISIT www.cellsciences.com

www.cellsciences.com