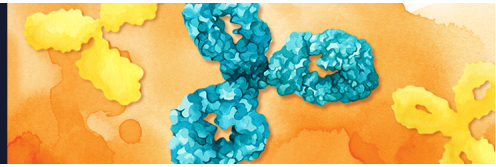


NEW *InVivoSIM*[™]
Biosimilar Antibodies
For Research Use Only

DISCOVER BioCell



 *The Journal of*
Immunology

152 (6)

J Immunol 1994; 152:2645-3209; ;
<http://www.jimmunol.org/content/152/6.citation>

This information is current as
of April 15, 2021.

Why *The JI*? [Submit online.](#)

- **Rapid Reviews! 30 days*** from submission to initial decision
- **No Triage!** Every submission reviewed by practicing scientists
- **Fast Publication!** 4 weeks from acceptance to publication

**average*

Subscription Information about subscribing to *The Journal of Immunology* is online at:
<http://jimmunol.org/subscription>

Permissions Submit copyright permission requests at:
<http://www.aai.org/About/Publications/JI/copyright.html>

Email Alerts Receive free email-alerts when new articles cite this article. Sign up at:
<http://jimmunol.org/alerts>

The Journal of Immunology is published twice each month by
The American Association of Immunologists, Inc.,
1451 Rockville Pike, Suite 650, Rockville, MD 20852
All rights reserved.
Print ISSN: 0022-1767 Online ISSN: 1550-6606.



The Journal of Immunology Contents

Volume 152 • Number 6 • March 15, 1994

Cellular Immunology and Immune Regulation

- 2645 Thymic Nurse Cells Are Sites of Thymocyte Apoptosis
Laura K. Aguilar, Estuardo Aguilar-Cordova, Joiner Cartwright, Jr., and John W. Belmont
- 2652 IFN- γ , TNF, and IL-6 Production by Vaccinia Virus Immune Spleen Cells: An In Vitro Study
Elizabeth A. Carpenter, Janet Ruby, and Ian A. Ramshaw
- 2660 Changes in Glucose Transport and Transporter Isoforms During the Activation of Human Peripheral Blood Lymphocytes by Phytohemagglutinin
Ranjan Chakrabarti, Chan Y. Jung, Tee-Ping Lee, Hongzhi Liu, and Basab K. Mookerjee
- 2669 Expression of the NK-TR Gene is Required for NK-Like Activity in Human T Cells
Cynthia A. Chambers, Steven Gallinger, Steven K. Anderson, Steven Giardina, John R. Ortaldo, Nobumichi Hozumi, and John Roder
- 2675 Naive Versus Memory CD4 T Cell Response to Antigen: Memory Cells are Less Dependent on Accessory Cell Costimulation and Can Respond to Many Antigen-Presenting Cell Types Including Resting B Cells
Michael Croft, Linda M. Bradley, and Susan L. Swain
- 2686 Costimulation of T Lymphocytes with Integrin Ligands Intercellular Adhesion Molecule-1 or Vascular Cell Adhesion Molecule-1 Induces Functional Expression of CTLA-4, a Second Receptor for B7
Nitin K. Damle, Kerry Klussman, Gina Leytze, Sigrid Myrdal, Alejandro Aruffo, Jeffrey A. Ledbetter, and Peter S. Linsley
- 2698 IL-4 is Essential for the Systemic Transfer of Delayed Hypersensitivity by T Cell Lines: Role of γ/δ cells
Francesco Dieli, Geoffrey L. Asherson, Giuseppina Colonna Romano, Guido Sireci, Francesco Gervasi, and Alfredo Salerno
- 2705 Expression of Functional trk Tyrosine Kinase Receptors After T Cell Activation
Patricia B. Ehrhard, Peter Erb, Ursula Graumann, Beatrice Schmutz, and Uwe Otten
- 2710 Expression of v-src in T Cells Correlates with Nuclear Expression of NF- κ B
Donald M. Eicher, Tse-Hua Tan, Nancy R. Rice, John J. O'Shea, and Ian C. S. Kennedy
- 2720 Antigen Presentation in the Central Nervous System: The Inhibitory Effect of IL-10 on MHC Class II Expression and Production of Cytokines Depends on the Inducing Signals and the Type of Cell Analyzed
Karl Frei, Hartmut Lins, Cornelia Schwerdel, and Adriano Fontana
- 2729 IL-12 Influences Intrathymic T Cell Development
Dale I. Godfrey, Jacqueline Kennedy, Maurice K. Gately, John Hakimi, Brian R. Hubbard, and Albert Zlotnik
- 2736 HLA Class I Molecules Are Not Transported to the Cell Surface in Cells Infected with Herpes Simplex Virus Types 1 and 2
Ann B. Hill, Barbara C. Barnett, Andrew J. McMichael, and Duncan J. McGeoch

The *Journal of Immunology* (ISSN 0022-1767) is published twice each month by The American Association of Immunologists, 428 East Preston Street, Baltimore, MD 21202. Subscription rates \$170 (\$260 foreign); institutions \$300 (\$390 foreign); single copy \$10 (\$15 foreign). Air Printed Matter rates are available on request from Customer Service, 428 E. Preston St., Baltimore, MD 21202-3993. Indexed by *Current Contents* and *Index Medicus*. Second class postage paid at Baltimore, MD 21202 and at additional mailing offices. Country of origin USA. Printed on acid-free paper which can be recycled. Postmaster: Send address changes to The Journal of Immunology, 428 East Preston Street, Baltimore, MD 21202. Copyright © 1994 by The American Association of Immunologists.

- 2742 Identification of a 52-kDa Molecule (p52) Coprecipitated with the Ig Receptor-Related MB-1 Protein that Is Inducibly Phosphorylated by the Stimulation with Phorbol Myristate Acetate
Kazuhiko Kuwahara, Tatsuya Matsuo, Jun Nomura, Hideya Igarashi, Masao Kimoto, Seiji Inui, and Nobuo Sakaguchi
- 2753 Mechanism of Lymphocyte Function-Associated Molecule 3-Ig Fusion Proteins Inhibition of T Cell Responses: Structure/Function Analysis In Vitro and in Human CD2 Transgenic Mice
Gerard R. Majeau, Werner Meier, Brad Jimmo, Dimitris Kioussis, and Paula S. Hochman
- 2768 CD9-Regulated Adhesion: Anti-CD9 Monoclonal Antibody Induce Pre-B Cell Adhesion to Bone Marrow Fibroblasts Through de Novo Recognition of Fibronectin
Anna Masellis-Smith and Andrew R. E. Shaw
- 2778 Antibody Repertoire in the Response to a Protein Antigen: Interrelated Idiotypic Families in the Response to Ia.7
Julia A. Misplon, Tom Wood, Liana Harvath, and Suzanne L. Epstein
- 2788 Generation and Characterization of a Monoclonal Antibody That Inhibits Stromal Cell-Dependent B Lymphopoiesis
Takashi Nagasawa, Tsuneyasu Kaisho, Tadimitsu Kishimoto, and Hitoshi Kikutani
- 2798 Role for MHC Class I Molecules in Selecting and Protecting High Affinity Peptides in the Presence of Proteases
David M. Ojcius, Pierre Langlade-Demoyen, Gabriel Gachelin, and Philippe Kourilsky
- 2811 Monoclonal, Antigen-Specific, T Cell Contrasuppressor Factor Expresses Determinants of TCR α -Chain (Not Necessarily TCR β -Chain), Having a Molecular Mass of About 40 kDa
Vipin Paliwal, Alan M. Friedman, Wlodzimierz Ptak, and Philip W. Askenase
- 2821 Hypercross-linking Surface IgM or IgD Receptors on Mature B Cells Induces Apoptosis that is Reversed by Costimulation with IL-4 and Anti-CD40
Sarah L. Parry, Jhagvaral Hasbold, Mary Holman, and Gerry G. B. Klaus
- 2830 Differential Activation of p21^{ras} in CD45RA⁺ and CD45RO⁺ Human T Lymphocytes
Hiren R. Patel, Harald Renz, Naohiro Terada, and Erwin W. Gelfand
- 2837 Point Mutations Define a mIgM Transmembrane Region Motif that Determines Intersubunit Signal Transduction in the Antigen Receptor
Christopher M. Pleiman, Nadine C. Chien, and John C. Cambier
- 2845 *c-kit* Expression by B Cell Precursors in Mouse Bone Marrow: Stimulation of B Cell Genesis by In Vivo Treatment with Anti-*c-kit* Antibody
S. A. Rico-Vargas, B. Weiskopf, S.-I. Nishikawa, and D. G. Osmond
- 2853 Cyclosporin A Inhibits Positive Selection and Delays Negative Selection in $\alpha\beta$ TCR Transgenic Mice
Kevin B. Urdahl, Drew M. Pardoll, and Marc K. Jenkins

Molecular and Structural Immunology

- 2860 Unique Selection Determinant in Polyclonal V δ 2-J δ 1 Junctional Regions of Human Peripheral $\gamma\delta$ T Lymphocytes
Timo M. Breit, Ingrid L. M. Wolvers-Tettero, and Jacques J. M. van Dongen
- 2865 Gene Required for Normal MHC Class II Expression and Function Is Localized to Approximately 45 kb of DNA in the Class II Region of the MHC
Stephanie Ceman, Jean W. Petersen, Valerie Pinet, and Robert DeMars
- 2874 Naturally Processed Peptides Longer than Nine Amino Acid Residues Bind to the Class I MHC Molecule HLA-A2.1 with High Affinity and in Different Conformations
Ye Chen, John Sidney, Scott Southwood, Andrea L. Cox, Kazuyasu Sakaguchi, Robert A. Henderson, Ettore Appella, Donald F. Hunt, Alessandro Sette, and Victor H. Engelhard

- 2882 Immunologic and Molecular Characterization of *Amb p V* Allergens from *Ambrosia psilostachya* (Western Ragweed) Pollen
Balaram Ghosh, Thorunn Rafnar, Michael P. Perry, Donna Bassolino-Klimas, William J. Metzler, David G. Klapper, and David G. Marsh
- 2890 Exploration of Requirements for Peptide Binding to HLA DRB10101 and DRB10401
C. Mark Hill, Angela Liu, Keith W. Marshall, John Mayer, Brett Jorgensen, Bin Yuan, Rose M. Cubbon, Elizabeth A. Nichols, Linda S. Wicker, and Jonathan B. Rothbard
- 2899 Binding of C3b and C4b by the CR1-Like Site in Murine CR1
Kimberly R. Kalli and Douglas T. Fearon
- 2904 The Transcription Factor BSAP (NF-HB) is Essential for Immunoglobulin Germ-line ϵ Transcription
Fang Liao, Barbara K. Birshtein, Meinrad Busslinger, and Paul Rothman
- 2912 Biased Utilization of D_{HQ52} and J_{H4} Gene Segments in a Human Ig Transgenic Minilocus Is Independent of Antigenic Selection
Nadine Tuaille, Amy B. Miller, Nils Lonberg, Philip W. Tucker, and J. Donald Capra
- 2921 Functional Analysis of Two Tetanus Toxin Universal T Cell Epitopes in Their Interaction with DR1101 and DR1104 Alleles
Danila Valmori, Alessandra Sabbatini, Antonio Lanzavecchia, Giampietro Corradin, and Paolo M. Matricardi

Host Defense

- 2930 Intracellular Infection by *Leishmania donovani* Inhibits Macrophage Apoptosis
Kathryn J. Moore and Greg Matlashewski
- 2938 In Vitro and In Vivo Effects of Lymphokine-Activated Killer Cells Upon Preattachment Ovine Conceptuses
Edward C. Segerson and Fields C. Gunsett
- 2952 Membrane Vesiculation of *Naegleria fowleri* Amoebae as a Mechanism for Resisting Complement Damage
Denise M. Toney and Francine Marciano-Cabral

Inflammation

- 2960 Neutralization of IL-8 Inhibits Neutrophil Influx in a Rabbit Model of Endotoxin-Induced Pleurisy
V. Courtney Broaddus, Alice M. Boylan, John M. Hoeffel, K. Jin Kim, Michael Sadick, Anan Chuntharapai, and Caroline A. Hébert
- 2968 A Humanized Antibody Specific for the Platelet Integrin α IIb/IIIa
Man Sung Co, Shinya Yano, Rick K. Hsu, Nicholas F. Landolfi, Max Vasquez, Michael Cole, J. T. Tso, Tim Bringman, Walter Laird, Debra Hudson, Kouji Kawamura, Kenichi Suzuki, Kiyoshi Furuichi, Cary Queen, and Yasuhiko Masuho
- 2977 Immunoreactivity and Function of Oligosaccharides in Cobra Venom Factor
D. Channe Gowda, Eugene C. Petrella, T. Tilak Raj, Reinhard Breddehorst, and Carl-Wilhelm Vogel
- 2987 Monocytes Express a Non-Neurokinin Substance P Receptor That Is Functionally Coupled to MAP Kinase
Frank Jeurissen, Annemieke Kavelaars, Mandy Korstjens, Dirk Broeke, Richard A. Franklin, Erwin W. Gelfand, and Cobi J. Heijnen
- 2995 Sublytic Complement Attack Exposes C-Reactive Protein Binding Sites on Cell Membranes
Yan-Ping Li, Carolyn Mold, and Terry W. Du Clos
- 3006 Secretion of IL-4 from Human Basophils: The Relationship between IL-4 mRNA and Protein in Resting and Stimulated Basophils
Donald MacGlashan, Jr., Jane M. White, Shau-Ku Huang, Santa J. Ono, John T. Schroeder, and Lawrence M. Lichtenstein

- 3017 Correlations Among Tyrosine Phosphorylation of Shc, p72^{syk}, PLC- γ 1, and [Ca²⁺]_i Flux in Fc γ RIIA Signaling
Zhenhai Shen, Ching-Tai Lin, and Jay C. Unkeless
- 3024 Endogenous Norepinephrine Regulates Tumor Necrosis Factor- α Production from Macrophages In Vitro
Robert N. Spengler, Stephen W. Chensue, Donald A. Giacherio, Nicole Blenk, and Steven L. Kunkel
- 3032 Complement Inhibitor of Rat Cell Membrane Resembling Mouse Crry/p65
Hisao Takizawa, Noriko Okada, and Hidechika Okada
- 3039 Regulation of Putrescine Export in Lipopolysaccharide or IFN- γ -Activated Murine Monocytic-Leukemic RAW 264 Cells
Raymond R. Tjandrawinata, Leo Hawel III, and Craig V. Byus
- 3053 Leukocyte Recruitment into Human Skin Transplanted onto Severe Combined Immunodeficient Mice Induced by TNF- α is Dependent on E-Selectin
Hornng-Chin Yan, Horace M. Delisser, Joseph M. Pilewski, Karen M. Barone, Pamela J. Szklut, Xiao-Jin Chang, Tim J. Ahern, Peninna Langer-Safer, and Steven M. Albelda
- 3064 Mast Cell and Neutrophil Expression of Dog Mast Cell Protease-3: A Novel Trypsin-Related Serine Protease
Michael J. Yezzi, Ivy E. Hsieh, and George H. Caughey

Clinical Immunology

- 3074 Selective Expansion of Cytotoxic T Lymphocytes with a CD4⁺CD56⁺ Surface Phenotype and a T Helper Type 1 Profile of Cytokine Secretion in the Liver of Patients Chronically Infected with Hepatitis B Virus
Vincenzo Barnaba, Alessandra Franco, Marino Paroli, Rosalba Benvenuto, Guido De Petrillo, Vito L. Burgio, Isabella Santilio, Clara Balsano, Maria S. Bonavita, Giulia Cappelli, Vittorio Colizzi, Giovanna Cutrona, and Manlio Ferrarini
- 3088 Characterization of the T Cell Determinants in the Induction of Autoimmune Arthritis by Bovine α 1(II)-CB11 in H-2^q Mice
David D. Brand, Linda K. Myers, Kuniaki Terato, Karen B. Whittington, John M. Stuart, Andrew H. Kang, and Edward F. Rosloniec
- 3098 A Novel Subpopulation of Primed T Cells in the Human Fetus
Jacquelyn A. Byrne, Ana K. Stankovic, and Max D. Cooper
- 3107 Rapamycin-Induced Long-Term Allograft Survival Depends on Persistence of Alloantigen
Huifang Chen, Hongyu Luo, Pierre Daloz, Dasheng Xu, and Jiangping Wu
- 3119 Requirement of Donor-Derived Stromal Cells in the Bone Marrow for Successful Allogeneic Bone Marrow Transplantation : Complete Prevention of Recurrence of Autoimmune Diseases in MRL/MP-lpr/lpr Mice by Transplantation of Bone Marrow Plus Bones (Stromal Cells) from the Same Donor
Takahiro Ishida, Muneo Inaba, Hiroko Hisha, Kikuya Sugiura, Yasushi Adachi, Norikazu Nagata, Ryohei Ogawa, Robert A. Good, and Susumu Ikehara
- 3128 New Monoclonal Antibody (23D12) Recognizing Three Different V γ Elements of the Human $\gamma\delta$ T Cell Receptor: 23D12⁺ Cells Comprise a Major Subpopulation of $\gamma\delta$ T Cells in Postnatal Thymus
Dieter Kabelitz, Thomas Ackermann, Thomas Hinz, François Davodeau, Hamid Band, Marc Bonneville, Ottmar Janssen, Bernhard Arden, and Susanne Schondelmaier
- 3137 Structure of the V_H and V_L Segments of Monoreactive and Polyreactive IgA Autoantibodies to DNA in Patients with Systemic Lupus Erythematosus
Marion T. Kasaian, Hideyuki Ikematsu, James E. Balow, and Paolo Casali
- 3152 Major Histocompatibility Complex Class II Gene Disruption Prevents Experimental Autoimmune Myasthenia Gravis
Rashmi Kaul, Mohan Shenoy, Elzbieta Goluszko, and Premkumar Christadoss

- 3158 Elevated In Vivo and In Vitro Secretion of CD8- α Molecules in Patients with Systemic Lupus Erythematosus
Mariana Linker-Israeli, Stephanie Hyun, Tal Ozeri-Chen, Daniel J. Wallace, Karen Banks, and James R. Klinenberg
- 3168 Immunoliposome Targeting to Murine CD4⁺ Leucocytes Is Dependent on Immune Status
Nigel C. Phillips, Lucie Gagne, Christos Tsoukas, and Jehad Dahman
- 3175 Idiotypic Intravaginal Vaccination to Protect Against Candidal Vaginitis by Secretory, Yeast Killer Toxin-Like Anti-Idiotypic Antibodies
Luciano Polonelli, Flavia De Bernardis, Stefania Conti, Maria Boccanera, Mara Gerloni, Giulia Morace, Walter Magliani, Carlo Chezzi, and Antonio Cassone
- 3183 Islet Cell Antigen 512 Is a Diabetes-Specific Islet Autoantigen Related to Protein Tyrosine Phosphatases
Daniel U. Rabin, Susan M. Pleasic, Jeffrey A. Shapiro, Heeja Yoo-Warren, Janice Oles, Jocelyn M. Hicks, David E. Goldstein, and Peter M. M. Rae
- 3189 Induction of Circulating Antagonists to IL-1 and TNF by IL-2 Administration and Their Effects on IL-2-Induced Cytokine Production In Vitro
Herbert Tilg, Leland Shapiro, Edouard Vannier, Debra D. Poutsika, Elizabeth Trehu, Michael B. Atkins, Charles A. Dinarello, and James W. Mier
- 3199 Unique C1 Inhibitor Dysfunction in a Kindred Without Angioedema: I. A mutant C1 INH that inhibits CTs but not CT_r
Jeffrey J. Wisniewski, Thomas C. Knauss, Iwona Yike, Dorr G. Dearborn, Rebecca L. Narvy, and George B. Naff
- 3210 Abstracts
- 3237 Author Index
- 3239 Information for Contributors
- 3241 Submission Form
- 3242 Membership Form