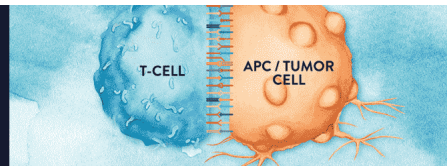


Ultra-pure antibodies for  
*in vivo* research, targeting  
immune checkpoints  
and more.

EXPLORE

BioCell



 *The Journal of*  
**Immunology**

**150 (11)**

*J Immunol* 1993; 150:4715-5208; ;  
<http://www.jimmunol.org/content/150/11.citation>

This information is current as  
of February 26, 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 150 • Number 11 • June 1, 1993

## Commentary

- 4715 CD22, a B Cell-Specific Receptor, Mediates Adhesion and Signal Transduction  
*Edward A. Clark*

## Cellular Immunology and Immune Regulation

- 4719 The Same Epitope on CD22 of B Lymphocytes Mediates the Adhesion of Erythrocytes, T and B Lymphocytes, Neutrophils, and Monocytes  
*Pablo Engel, Yoshihisa Nojima, David Rothstein, Liang-JI Zhou, Gaye Lynn Wilson, John H. Kehrl, and Thomas F. Tedder*
- 4733 Dipeptidyl Peptidase I Is Enriched in Granules of in Vitro- and In Vivo-Activated Cytotoxic T Lymphocytes  
*Geri R. Brown, Michael J. McGuire, and Dwain L. Thiele*
- 4743 Recombinant IL-6 Activates p42 and p44 Mitogen-Activated Protein Kinases in the IL-6 Responsive B Cell Line, AF-10  
*M. Daeipour, G. Kumar, M. C. Amaral, and A. E. Nel*
- 4754 Direct Effects of IL-10 on Subsets of Human CD4<sup>+</sup> T Cell Clones and Resting T Cells: Specific Inhibition of IL-2 Production and Proliferation  
*René de Waal Malefyt, Hans Yssel, and Jan E. de Vries*
- 4766 Calcium Mobilization-Associated and Independent Cytosolic Acidification Elicited in Tandem with Na<sup>+</sup>/H<sup>+</sup> Exchanger Activation in Target Cell-Adherent Human NK Cells  
*Bruce S. Edwards, Robyn R. Hoffman, and Mark S. Curry*
- 4777 Mixed Haplotype A $\beta$ z/A $\alpha$ d Class II Molecule in (NZB  $\times$  NZW)F<sub>1</sub> Mice Detected by T Cell Clones  
*Yudai Gotoh, Hiroshi Takashima, Kazuo Noguchi, Hiroyuki Nishimura, Miyoko Tokushima, Toshikazu Shirai, and Masao Kimoto*
- 4788 Activation of CD8-Dependent Cytotoxic T Lymphocyte Adhesion and Degranulation by Peptide Class I Antigen Complexes  
*Kevin P. Kane and Matthew F. Mescher*
- 4798 Ligation of CD23 Triggers Cyclic AMP Generation in Human B Lymphocytes  
*Jean-Pierre Kolb, Annie Abadie, Nathalie Paul-Eugene, Monique Capron, Marie Sarfati, Bernard Dugas, and Guy Delespesse*
- 4810 Cholera Toxin Promotes B Cell Isotype Switching by Two Different Mechanisms: cAMP Induction Augments Germ-Line Ig H-Chain RNA Transcripts Whereas Membrane Ganglioside GM1-Receptor Binding Enhances Later Events in Differentiation  
*Nils Y. Lycke*

---

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. Postmaster: Send address changes to The Journal of Immunology, East Preston Street, Baltimore, MD 21202. Copyright © 1993 by The American Association of Immunologists.

- 4822 Induction of Early Response Genes by Cross-Linking Membrane Ig on B Lymphocytes  
*Paul R. Mittelstadt and Anthony L. DeFranco*
- 4833 Detection of a Glycosylation-Dependent Ligand for the T Lymphocyte Cell Adhesion Molecule CD2 Using a Novel Multimeric Recombinant CD2-Binding Assay  
*Christopher R. Parish, Michael A. Recny, Maria H. Knoppers, John C. Waldron, and Hilary S. Warren*
- 4844 Response of Human NK Cells to IL-6 Alterations of the Cell Surface Phenotype, Adhesion to Fibronectin and Laminin, and Tumor Necrosis Factor- $\alpha/\beta$  Secretion  
*Hannah Rabinowich, Peter Sedlmayr, Ronald B. Herberman, and Theresa L. Whiteside*
- 4856 Human CD4<sup>+</sup> Cytolytic T Cells Kill Antigen-Pulsed Target T Cells by Induction of Apoptosis  
*M. Rahelu, G. T. Williams, D. S. Kumararatne, G. C. Eaton, and J. S. H. Gaston*
- 4867 Liver  $\gamma\delta$  T Cells: TCR Junctions Reveal Differences in Heat Shock Protein-60-Reactive Cells in Liver and Spleen  
*Christina Ellis Roark, Michaelann K. Vollmer, Robin L. Cranfill, Simon R. Carding, Willi K. Born, and Rebecca L. O'Brien*
- 4876 Functional Thrombin Receptors on Human T Lymphoblastoid Cells  
*Attila Tordai, John W. Fenton II, Thomas Andersen, and Erwin W. Gelfand*
- 4887 Regulation of the Tyrosine Kinase-Dependent Adhesion Pathway in Human Lymphocytes Through CD45  
*Norbert Wagner, Pablo Engel, and Thomas F. Tedder*
- 4900 Rejection of an IA<sup>+</sup> Variant Line of FBL-3 Leukemia by Cytotoxic T Lymphocytes with CD4<sup>+</sup> and CD4<sup>-</sup>CD8<sup>-</sup> T Cell Receptor- $\alpha\beta$  Phenotypes Generated in CD8-Depleted C57BL/6 Mice  
*Atsutoshi Yoshimura, Hiroshi Shiku, and Eiichi Nakayama*

### **Molecular and Structural Immunology**

- 4911 HB4 Antibody Recognizes a Carbohydrate Structure on Lymphocyte Surface Proteins Related to HB6, CDw75, and CD76 Antigens  
*Wim B. M. De Lau, Jeroen Kuipers, Hans Voshol, Hans Clevers, and Bert J. E. G. Bast*
- 4920 Expression Cloning of the Early Activation Antigen CD69, a Type II Integral Membrane Protein with a C-Type Lectin Domain  
*Jörg Hamann, Helmut Fiebig, and Michael Strauss*
- 4928 Large Cytoplasmic Inclusion Body  $\kappa$ -Chain Has Unusual Intrachain Disulfide Bonding  
*Hans-Martin Jäck, Barbara Sloan, Genesa Grisham, Donald Reason, and Matthias Wabl*
- 4934 Developmental and Cytokine-Mediated Regulation of MHC Class II Gene Promoter Occupancy in Vivo  
*Catherine J. Kara and Laurie H. Glimcher*
- 4943 Genetic Basis of Human Complement C8 $\beta$  Deficiency  
*Thomas Kaufmann, Gertrud Hänsch, Christian Rittner, Peter Späth, Francesco Tedesco, and Peter M. Schneider*
- 4948 Structural Similarity of Antibody Variable Regions from Immune and Autoimmune Anti-DNA Antibodies  
*Meera R. Krishnan and Tony N. Marion*
- 4958 Differential Action of Cycloheximide and Activation Stimuli on Transcription of Tumor Necrosis Factor- $\alpha$ , IL-1 $\beta$ , IL-8, and P53 Genes in Human Monocytes  
*Oleg A. Osipovich, Konstantin V. Fegeeding, Natalia I. Misuno, Tatyana S. Kolesnikova, Igor K. Savostin, Andrew B. Sudarikov, and Nikolai N. Voitenok*

- 4966 Residues that Mediate DNA Binding of Autoimmune Antibodies  
*M. Z. Radic, J. Mackle, J. Erikson, C. Mol, W. F. Anderson, and M. Weigert*
- 4978 Monoclonal, Anti-Domain and Anti-Peptide Antibodies Assign the Molecular Weight 160,000 Granulocyte Membrane Antigen of the CD66 Cluster to a mRNA Species Encoded by the Biliary Glycoprotein Gene, a Member of the Carcinoembryonic Antigen Gene Family  
*Archontoula Stoffel, Michael Neumaier, Franz-Josef Gaida, Ursula Fenger, Zofia Drzeniek, Hans-Dieter Haubeck, and Christoph Wagener*
- 4985 Use of the Most J<sub>H</sub>-Proximal Human Ig H Chain V Region Gene, V<sub>H6</sub>, in the Expressed Immune Repertoire  
*William S. Varade, Elides Marin, Ann M. Kittelberger, and Richard A. Insel*
- 4996 Genomic Cloning and Promoter Analysis of Macrophage Inflammatory Protein (MIP)-2, MIP-1 $\alpha$ , and MIP-1 $\beta$ , Members of the Chemokine Superfamily of Proinflammatory Cytokines  
*Urs Widmer, Kirk R. Manogue, Anthony Cerami, and Barbara Sherry*
- 5013 Genomic Structure and Chromosomal Mapping of the Human CD22 Gene  
*Gaye Lynn Wilson, Vesna Najfeld, Eric Kozlow, Joan Menniger, David Ward, and John H. Kehrl*
- 5025 cDNA Cloning of Guinea Pig Monocyte Chemoattractant Protein-1 and Expression of the Recombinant Protein  
*Teizo Yoshimura*

### Host Defense

- 5033 Differences in Cytokine Response and Induction of Nitric Oxide Synthase in Endotoxin-Resistant and Endotoxin-Sensitive Mice after Intravenous Gram-Negative Infection  
*Thomas J. Evans, Eddy Strivens, Adam Carpenter, and Jonathan Cohen*
- 5041 Genetically Permissive Recognition of Adjacent Epitopes from the 19-kDa Antigen of *Mycobacterium tuberculosis* by Human and Murine T Cells  
*David P. Harris, Hans M. Vordermeier, Giuseppe Friscia, Eulogia Román, Heljä-Marja Surcel, Geoffrey Pasvol, Carlos Moreno, and Juraj Ivanyi*
- 5051 Virus-Specific Cytotoxic T Cell-Mediated Lysis of Lymphocytes in Vitro and in Vivo  
*Diego Kyburz, Daniel. E. Speiser, Toni Aebischer, Hans Hengartner, and Rolf M. Zinkernagel*
- 5059 Transfected *Leishmania* Expressing Biologically Active IFN- $\gamma$   
*James F. Tobin, Steven L. Reiner, Farah Hatam, Shichun Zheng, Christopher L. Leptak, Dyann F. Wirth, and Richard M. Locksley*

### Inflammation

- 5070 Role of 55- and 75-kDa Tumor Necrosis Factor Membrane Receptors in the Regulation of Intercellular Adhesion Molecules-1 Expression by HL-60 Human Promyelocytic Leukemia Cells in Vitro  
*Yasuhito Abe, Maki Gatanaga, Yo Osuka, Shigeru Kimura, Robert A. Burger, Gale A. Granger, and Tetsuya Gatanaga*
- 5080 Nitric Oxide-Mediated Apoptosis in Murine Peritoneal Macrophages  
*Jorge E. Albina, Shijun Cui, Romeo B. Mateo, and Jonathan S. Reichner*
- 5086 Short Time Exposure to Lipopolysaccharide Is Sufficient to Activate Human Monocytes  
*Philippe Gallay, C. Victor Jongeneel, Catherine Barras, Michel Burnier, Jean-Daniel Baumgartner, Michel Pierre Glauser, and Didier Heumann*
- 5094 Cytokine Mediation of the Suppressive Effect of Ferritin on Colony-Stimulating Factor-1-Dependent Monocytopoiesis  
*Robert Kreisberg, Melinda S. Detrick, Alexander P. Osmand, and Robert N. Moore*

- 5104 Microvascular Effects of Complement Blockade with Soluble Recombinant CR1 on Ischemia/Reperfusion Injury of Skeletal Muscle  
*Mark Pemberton, Gary Anderson, Václav Větrvička, David E. Justus, and Gordon D. Ross*
- 5114 Elevated Cyclic AMP Inhibits Endothelial Cell Synthesis and Expression of TNF-Induced Endothelial Leukocyte Adhesion Molecule-1, and Vascular Cell Adhesion Molecule-1, but Not Intercellular Adhesion Molecule-1  
*Jordan S. Pober, Mark R. Slowik, Linda G. De Luca, and Andrew J. Ritchie*
- 5124 Impairment of Function in Aging Neutrophils is Associated with Apoptosis  
*Maira K. B. Whyte, Laura C. Meagher, John MacDermot, and Christopher Haslett*

### Clinical Immunology

- 5135 Topical Application of T-2 Toxin Inhibits the Contact Hypersensitivity Response in BALB/c Mice  
*Benny L. Blaylock, Yasuhide Kouchi, Christine E. Comment, Pamela L. Pollock, and Michael I. Luster*
- 5144 Human Intestinal Intraepithelial Lymphocytes Are Derived from a Limited Number of T Cell Clones That Utilize Multiple V $\beta$  T Cell Receptor Genes  
*Richard S. Blumberg, Courtland E. Yockey, Gerald G. Gross, Ellen C. Ebert, and Steven P. Balk*
- 5154 EBV Peptide Epitope Sensitization Restores Human Cytotoxic T Cell Recognition of Burkitt's Lymphoma Cells: Evidence for a Critical Role for ICAM-2  
*Rajiv Khanna, Scott R. Burrows, Andreas Suhrbier, Catherine A. Jacob, Heather Griffin, Ihor S. Misko, Thomas B. Sculley, Martin Rowe, Alan B. Rickinson, and Denis J. Moss*
- 5163 Human Mouse Chimeric CD7 Monoclonal Antibody (SDZCHH380) for the Prophylaxis of Kidney Transplant Rejection  
*Andrew I. Lazarovits, James Rochon, Linda Banks, David J. Hollomby, Norman Muirhead, Anthony M. Jevnikar, Martin J. White, Peter L. Amlot, Lise Beauregard-Zollinger, and Calvin R. Stiller*
- 5175 Expression of the Fc Receptor for IgG (Fc $\gamma$ RII/CDw32) by Human Circulating T and B Lymphocytes  
*Basil X. Mantzioris, Manuela F. Berger, William Sewell, and Heddy Zola*
- 5185 Induction of Diabetes Is Influenced by the Infectious Virus and Local Expression of MHC Class I and Tumor Necrosis Factor- $\alpha$   
*Pamela S. Ohashi, Stephan Oehen, Peter Aichele, Hanspeter Pircher, Bernhard Odermatt, Pedro Herrera, Yasunori Higuchi, Kurt Buerki, Hans Hengartner, and Rolf M. Zinkernagel*
- 5195 Correlation of Oncostatin M Secretion by Human Retrovirus-Infected Cells with Potent Growth Stimulation of Cultured Spindle Cells from AIDS-Kaposi's Sarcoma  
*Susan F. Radka, Shuji Nakamura, Shinsaku Sakurada, and Syed Z. Salahuddin*
- 5202 Role of CD25<sup>+</sup> and CD25<sup>-</sup> T Cells in Acute HIV Infection in Vitro  
*Octavio Ramilo, Kenneth D. Bell, Jonathan W. Uhr, and Ellen S. Vitetta*
- 5209 Erratum
- 5210 Announcement
- i Author Index