

R. Kontermann
S. Dübel
(Eds.)

Antibody Engineering



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Mihrimah Ozkan, Michael Heller



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Antibody Engineering Volume 2 Roland E. Kontermann, Stefan Dübel, 2010-03-10 Antibodies are indispensable tools for research diagnosis and therapy Recombinant approaches allow the modification and improvement of nearly all antibody properties such as affinity valency specificity stability serum half life effector functions and immunogenicity Antibody Engineering provides a comprehensive toolbox covering the well established basics but also many exciting new techniques The protocols reflect the latest hands on knowledge of key laboratories in this still fast moving field Newcomers will benefit from the proven step by step protocols which include helpful practical advice experienced antibody engineers will appreciate the new ideas and approaches The book is an invaluable resource for all those engaged in antibody research and development

Antibody Engineering Roland E. Kontermann, Stefan Dübel, 2013-06-29 Interest in recombinant antibody technologies has rapidly increased because of the wide range of possible applications in therapy and diagnosis especially in cancer treatment The possibility of generating human antibodies that are not accessible by conventional polyclonal or monoclonal approaches has forced the development of antibody engineering technologies even more This manual presents a comprehensive collection of detailed step by step protocols provided by experts in the field All basic methods needed in antibody engineering not only methods to generate recombinant antibodies but also protocols for analysis and their use and recently developed and emerging technologies are covered

Antibody Engineering Benny K. C. Lo, 2008-02-03 The exquisite binding specificity of antibodies has made them valuable tools from the laboratory to the clinic Since the description of the murine hybridoma technology by Kohler and Milstein in 1975 a phenomenal number of monoclonal antibodies have been generated against a diverse array of targets Some of these have become indispensable reagents in biomedical research while others were developed for novel therapeutic applications The attractiveness of antibodies in this regard is obvious high target specificity adaptability to a wide range of disease states and the potential ability to direct the host immune system for a therapeutic response The initial excitement in finding Paul Ehrlich's magic bullet however was met with widespread disappointment when it was demonstrated that murine antibodies frequently elicit the human anti murine antibody HAMA response thus rendering them ineffective and potentially unsafe in humans Despite this setback advances in recombinant DNA techniques over the last 15-20 years have empowered the engineering of recombinant antibodies with desired characteristics including properties to avoid HAMA The ability to produce bulk quantities of recombinant proteins from bacterial fermentation also fueled the design of numerous creative antibody constructs To date the United States Food and Drug Administration has approved more than 10 recombinant antibodies for human use and hundreds more are in the development pipeline The recent explosion in genomic and proteomic information appears ready to deliver many more disease targets amenable to antibody based therapy

Antibody Engineering Volume 1 Roland E. Kontermann, Stefan Dübel, 2010-03-10 Antibodies are indispensable tools for research diagnosis and therapy Recombinant approaches allow the

modification and improvement of nearly all antibody properties such as affinity valency specificity stability serum half life effector functions and immunogenicity Antibody Engineering provides a comprehensive toolbox covering the well established basics but also many exciting new techniques The protocols reflect the latest hands on knowledge of key laboratories in this still fast moving field Newcomers will benefit from the proven step by step protocols which include helpful practical advice experienced antibody engineers will appreciate the new ideas and approaches The book is an invaluable resource for all those engaged in antibody research and development

Protein Purification Jan-Christer Janson, 2012-01-03 The authoritative guide on protein purification now completely updated and revised Since the Second Edition of Protein Purification was published in 1998 the sequencing of the human genome and other developments in bioscience have dramatically changed the landscape of protein research This new edition addresses these developments featuring a wealth of new topics and several chapters rewritten from scratch Leading experts in the field cover all major biochemical separation methods for proteins in use today providing professionals in biochemistry organic chemistry and analytical chemistry with quick access to the latest techniques Entirely new or thoroughly revised content includes High resolution reversed phase liquid chromatography Electrophoresis in gels Conventional isoelectric focusing in gel slabs and capillaries and immobilized pH gradients Affinity ligands from chemical and biological combinatorial libraries Membrane separations Refolding of inclusion body proteins from E coli Purification of PEGylated proteins High throughput screening techniques in protein purification The history of protein chromatography

BioMEMS and Biomedical Nanotechnology Mihrimah Ozkan, Michael Heller, 2007-04-03 Contributions reporting on fundamental and applied investigations of the material science biochemistry and physics of biomedical microdevices with applications to Genomics and Proteomics Topics include gene expression profiling utilizing microarray technology imaging and sensing for gene detection and use in DNA analysis and coverage of advanced microfluidic devices and the Humane Genome Project

Rapid methods for biological and chemical contaminants in food and feed A. van Amerongen, D. Barug, M. Lauwaars, 2023-08-28 The rapid and reliable detection of biological and chemical contaminants is extremely important in managing the safety of food and feed Rapid Methods is a comprehensive reference resource for anyone interested in this subject Developments in analytical techniques have led to the emergence of a wide range of rapid methods to complement the traditional methods At the same time the importance of method validation proficiency testing quality management sampling and legislation have all become more widely recognised Rapid Methods presents a firm base and structured framework for considering rapid analysis of biological and chemical contaminants in food and feed The various chapters concentrate on the state of the art in rapid methods in regards to legislation sampling method validation microbial pathogens biological materials like GMOs and allergens toxins like bacterial food poisoning toxins marine toxins and biogenic amines chemicals like veterinary drugs pesticides and dioxins The editors firmly believe that the very nature of the theme the excellence of the peer reviewed papers and the holistic approach chosen

in this book will draw an audience from both the food and feed industry as well as from the scientific community

Influenza Virus Vaccines and Immunotherapies Arun Kumar, Shakti Singh, 2016-03-15 Influenza virus infections lead to thousands of deaths worldwide annually and billions of dollars economic burden. Despite continuing advances in our understanding of the immune evasion mechanism, the disease remains one of the foremost threats for human beings. Traditional vaccines, attenuated and inactivated, mainly provide protection by inducing virus neutralizing antibodies targeting ever-changing surface antigens, Haemagglutinin (HA) and Neuraminidase (NA). Due to genetic shift and immune selection pressure, prevalence of circulating influenza virus subtypes changes every year. Therefore, mismatch between circulating strain and vaccine strain can critically affect the success rate of these conventional flu vaccines and requires continuous monitoring of circulating influenza virus subtypes and change in the vaccine formulations accordingly. The collective limitations of existing flu vaccines urgently call for the development of a novel universal vaccine that might provide the required protective immunity to a range of influenza virus subtypes. New approaches are being investigated, mainly targeting conserved regions of flu proteins. Some of these approaches include universally conserved epitopes of HA, nucleoprotein (NP), capsid protein (M1) and ion channel protein (M2) that induced strong immune responses in animal models. Some attention and progress appears to be focused on vaccines based on the M2 ectodomain (M2e) employing a variety of constructs, adjuvants and delivery systems including M2e, hepatitis B core antigen, flagellin constructs and virus-like particles (VLP). Animal studies with these M2e candidate vaccines demonstrated that these vaccine candidates can prevent severe illness and death but not infection, which may pose difficulties in both the evaluation of clinical efficacy and approval by the regulatory authorities. VLP vaccines appear to be promising but still are mostly limited to animal studies. The discovery and development of new and improved vaccines have been greatly facilitated by the application of new technologies. The use of nucleic acid-based vaccines to combine the benefits of in situ expression of antigens with the safety of inactivated and subunit vaccines has been a key advancement. Upon their discovery more than 20 years ago, nucleic acid vaccines promised to be a safe and effective means to mimic immunization with a live organism vaccine, particularly for induction of T cell immunity. In addition, the manufacturing of nucleic acid-based vaccines offered the potential to be relatively simple, inexpensive and generic. Reverse vaccinology and in silico designing of vaccines are very innovative approaches and being considered as future of vaccines. Furthermore, various immuno-therapeutic agents are also being developed to treat and minimize immuno-pathological damage in patients suffering from life-threatening complications. For the treatment of such pathological conditions, various novel approaches such as administration of immune suppressive cytokines, blocking co-stimulatory signals or activating co-inhibitory signal of T cell activation are being tested both in lab and clinics. The Research Topic on influenza virus vaccine and therapeutics will give an insight into the current status and future scope of these new innovative approaches and technologies. Moreover, these new methods will also serve as a reference tool for the development of future vaccines against several other pathogens.

The Immunoassay Handbook David Wild, 2013-01-21 The fourth edition of The Immunoassay Handbook provides an excellent thoroughly updated guide to the science technology and applications of ELISA and other immunoassays including a wealth of practical advice It encompasses a wide range of methods and gives an insight into the latest developments and applications in clinical and veterinary practice and in pharmaceutical and life science research Highly illustrated and clearly written this award winning reference work provides an excellent guide to this fast growing field Revised and extensively updated with over 30% new material and 77 chapters it reveals the underlying common principles and simplifies an abundance of innovation The Immunoassay Handbook reviews a wide range of topics now including lateral flow microsphere multiplex assays immunohistochemistry practical ELISA development assay interferences pharmaceutical applications qualitative immunoassays antibody detection and lab on a chip This handbook is a must read for all who use immunoassay as a tool including clinicians clinical and veterinary chemists biochemists food technologists environmental scientists and students and researchers in medicine immunology and proteomics It is an essential reference for the immunoassay industry Provides an excellent revised guide to this commercially highly successful technology in diagnostics and research from consumer home pregnancy kits to AIDS testing www.immunoassayhandbook.com is a great resource that we put a lot of effort into The content is designed to encourage purchases of single chapters or the entire book David Wild is a healthcare industry veteran with experience in biotechnology pharmaceuticals medical devices and immunodiagnostics which remains his passion He worked for Amersham Eastman Kodak Johnson Johnson and Bristol Myers Squibb and consulted for diagnostics and biotechnology companies He led research and development programs design and construction of chemical and biotechnology plants and integration of acquired companies Director level positions included Research and Development Design Engineering Operations and Strategy for billion dollar businesses He retired from full time work in 2012 to focus on his role as Editor of The Immunoassay Handbook and advises on product development manufacturing and marketing Provides a unique mix of theory practical advice and applications with numerous examples Offers explanations of technologies under development and practical insider tips that are sometimes omitted from scientific papers Includes a comprehensive troubleshooting guide useful for solving problems and improving assay performance Provides valuable chapter updates now available on www.immunoassayhandbook.com

Immunology Werner Luttmann, Kai Bratke, Michael Kupper, Daniel Myrtek, 2006-07-28 Immunology is more than a laboratory manual it is a strategic guide that provides the reader with tips and tricks for more successful lab experiments The authors explore the current methodological variety of immunology in a simple manner addressing the assets and drawbacks as well as critical points Also provided are short and precise summaries of routine procedures as well as listings of the advantages and disadvantages of alternative methods This well written guide is an essential companion for anyone using modern immunological methods in the laboratory Shows how to avoid experimental dead ends and develop an instinct for the right experiment at the right time Contains short and precise

summaries of routine procedures e g column chromatography gel electrophoresis as well as listings of advantages and disadvantages of alternative methods Includes over 100 informative illustrations background information an extensive glossary and a table of current CD nomenclature

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