

Antibody Engineering

A PRACTICAL APPROACH

Edited by

**J. McCAFFERTY, H. R. HOOGENBOOM,
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The Practical Approach Series
Series Editor: **B. D. HAMES**

Antibody Engineering A Practical Approach Practical Approach Series

Roland E. Kontermann, Stefan Dübel



Antibody Engineering A Practical Approach Practical Approach Series:

Antibody Engineering Dr. John McCafferty, Hennie Hoogenboom, Dave Chiswell, 1996 Recombinant DNA techniques have revolutionized the isolation and production of antibodies in recent years and rapid changes have been made This new Practical Approach book details protocols which allow the researcher to isolate a new antibody analyse its properties format the right antibody molecule or fragment and produce it in usable quantities **Monoclonal Antibodies** Philip Shepherd, Christopher J. Dean, 2000 Monoclonal Antibodies A Practical Approach covers the preparation testing derivation and applications of monoclonal antibodies New immunological techniques incorporating tried and tested methodologies are described making the book of interest to established and inexperienced immunologists Both the standard somatic hybridization technique and recombinant techniques including the use of phage libraries for the preparation of rodent and human monoclonal antibodies are described Protocols for both the small and large scale production are detailed as well as purification and labelling with both radioisotopes and non radioisotopes methods The applications of monoclonal antibodies in immunoblotting enzyme linked immunoassays immunofluorescence and FACS analysis are all covered in detail Finally protocols are given for the use of monoclonal antibodies in rheumatoid arthritis tissue typing detecting DNA modified during chemotherapy and in the clinical analysis of transplantation samples for malignancy This book will therefore be an invaluable laboratory companion to anyone using monoclonal antibodies in their research **Protein Structure Prediction : A**

Practical Approach Michael J. E. Sternberg, 1996-11-28 The three dimensional structure of proteins is a key factor in their biological activity There is an increasing need to be able to predict the structure of a protein once its amino acid sequence is known this book presents practical methods of achieving that ambitious aim using the latest computer modelling algorithms The prediction of the three dimensional structure of a protein from its sequence is a problem faced by an ever increasing number of biological scientists as they strive to utilize genetic information The increasing sizes of the sequence and structural databases the improvements in computing power and the deeper understanding of the principles of protein structure have led to major developments in the field in the last few years This book presents practical computer based methods using the latest computer modelling algorithms *RNA-Protein Interactions : A Practical Approach* Christopher W.J. Smith, 1998-07-09 RNA protein interactions play a fundamental role in gene expression and protein synthesis Recent research into the role of RNA in cells has elucidated many more vital interactions with proteins This book provides an up to date and comprehensive guide to a wide range of laboratory procedures to investigate the interactions between RNA and proteins RNA protein interactions play a vital role in gene transcription and protein expression Interactions such as the synthesis of mRNA by RNA polymerases to the essential modification of RNA by the proteins of the spliceosome complex and the highly catalytic action of the ribosome in protein synthesis are established as being fundamental to the function of RNA Recent research into for example the role of RNA as a catalyst has elucidated many more interactions with proteins that are

vital to cell function RNA Protein Interactions A Practical Approach provides a clear and comprehensive guide to the experimental procedures used in studying RNA protein interactions The approaches covered range from those initially used to detect a novel RNA protein interaction various biochemical and genetic approaches to purifying and cloning RNA binding proteins through to methods for an in depth analysis of the structural basis of the interaction The volume includes a number of procedures that have not previously been covered in this type of manual These include the production of site specifically modified RNAs by enzymatic and chemical methods and in vivo screening for novel RNA protein interactions in yeast and E coli This is the first volume to gather in one place this wide array of approaches for studying RNA protein interactions As is customary for the Practical Approach series the writing is characterized by a clear explanatory style with many detailed protocols This informative book will be a valuable aid to laboratory workers in biochemistry and molecular biology graduate students postdoctoral and senior scientists whose research encompasses this field

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

Volume I

, 2000-10-05 The two Essential Molecular Biology books in the Practical Approach Series are designed for the absolute beginner at gene cloning whether they be at the start of their career or an experienced researcher in another field As with the first editions the objective of both volumes is to combine solid practical information with sufficient background material to ensure that the novice can understand how a technique works what it achieves and how to make modifications to suit personal requirements Volume 1 concentrates on the procedures for DNA and RNA manipulation purification electrophoresis and the construction and cloning of recombinant molecules It also includes a general introduction to molecular biology in the laboratory and a survey of cloning vectors for Escherichia Coli

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

Recombinant Antibodies

Karen

Harper,Angelika Ziegler,1999-07-22 The first part of this book combines basic information on antigens and antibodies with a review of technologies for both the development of recombinant antibodies and their application The principles involved in producing recombinant antibodies from either pre existing monoclonal antibodies or from phage display libraries are introduced with practical examples Modern methods for the analysis of antibody binding properties are described in detail Examples are given in the second part of this book for the application of recombinant antibody technology to antibody mediated resistance to plant disease and immunomodulation of plant antigens The potential of antibody expressing plants as bioreactors for large scale production and storage of recombinant antibodies is described and a future outlook given

Cancer Therapy with Radiolabeled Antibodies David M. Goldenberg,2018-01-18 Cancer Therapy with Radiolabeled Antibodies explores the most current experimental and clinical advances in the newly emerging field of cancer radioimmunotherapy RAIT Providing a multidisciplinary and international context some of the world s leading experts examine the problems and prospects of RAIT from radiation immunological chemical physical physiological and clinical perspectives with both overviews and original research Discussions cover the up to date clinical results in the RAIT of ovarian breast colorectal and brain cancers as well as the current status of RAIT in the management of B cell lymphomas Radiobiology dosimetry radiochemistry targeting biology in experimental models clinical experiences in hematopoietic and solid tumors and new approaches to improve cancer radioimmunotherapy are also discussed In addition new dosimetry concepts new labeling methods new concepts of antibody pharmacokinetics and new methods to enhance selective cancer radioimmunotherapy are included

Methods in Plant Cell Biology, Part A ,1995-10-10 Methods in Plant Cell Biology provides in two volumes a comprehensive collection of analytical methods essential for researchers and students in the plant sciences Individual chapters written by experts in the field provide an introductory overview followed by a step by step technical description of the methods Key Features Written by experts many of whom have developed the individual methods described Contains most if not all the methods needed for modern research in plant cell biology Up to date and comprehensive Full references Allows quick access to relevant journal articles and to the sources of chemicals required for the procedures Selective concentration on higher plant methods allows for particular emphasis on those problems specific to plants

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