

Springer Protocols

Methods in Molecular Biology 524

Epitope Mapping Protocols

Second Edition

Edited by
Ulrich Reineke
Mike Schutkowski



 Humana Press

Epitope Mapping Protocols

Mary Keen



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Epitope Mapping Protocols Johan Rockberg, Johan Nilvebrant, Magdalena Malm, Niklas Berndt Thalén, 2025-07-01 This detailed new edition explores methodologies for the characterization of antibody antigen interactions tailored to different applications and requirements Beginning with an overview of key concepts and definitions related to antibody epitopes the book continues with sections on structural biology methods display technologies to analyze libraries of proteins or protein arrays techniques based on protein labeling as well as computational approaches and binding assays that rely on binding interactions or competition Written for the highly successful *Methods in Molecular Biology* series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date *Epitope Mapping Protocols* Fourth Edition serves as an ideal resource for scientists from a wide range of fields involved in critical antibody research Chapter 19 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Epitope Mapping Protocols Ulrich Reineke, Mike Schutkowski, 2010-11-16 Given the versatile utility of the determination of epitopes beneficial to a wide variety of scientists from immunologists to structural biologists to biotechnologists the need for a thorough state of the art collection of experimental protocols is clear In *Epitope Mapping Protocols* Second Edition expert contributors from a broad spectrum of scientific backgrounds update and expand the successful first edition with cutting edge techniques and applications including approaches to both antibody or B cell epitope mapping and T cell epitope mapping as well as a new section on the profiling of antibody signatures in biological fluids Written in the popular *Methods in Molecular Biology*™ series format chapters include brief introductions to the topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and Notes sections which highlight tips on troubleshooting and avoiding known pitfalls Comprehensive and up to date *Epitope Mapping Protocols* Second Edition is a reliable and valuable reference for all those who wish to understand and further investigate the diversifying field of epitope mapping

Methods in Molecular Biology: Epitope mapping protocols John M. Walker, 1984

The Protein Protocols Handbook John M. Walker, 2008-02-12 In *The Protein Protocols Handbook* I have attempted to provide a cross section of analytical techniques commonly used for proteins and peptides thus providing a benehtop manual and guide both for those who are new to the protein chemistry laboratory and for those more established workers who wish to use a technique for the first time We each of course have our own favorite commonly used gel system g staining method blotting method and so on I m sure you will find yours here H ever I have also described a variety of altematives for many of these techniques though they may not be superior to the methods you commonly use they may nev theless be more appropriate in a particular situation Only by knowing the range of techniques that are available to you and the strengths and limitations of these te niques will you be able to choose the method that best suits your purpose

Plant

Virology Protocols Gary D. Foster, Sally Taylor, 2008-02-03 The aim of Plant Virology Protocols is to provide a source of information to guide the reader through the wide range of methods involved in generating transgenic plants that are resistant to plant viruses To this end we have commissioned a wide ranging list of chapters that will cover the methods required for plant virus isolation RNA extraction cloning coat protein genes introduction of the coat protein gene into the plant genome and testing transgenic plants for resistance The book then moves on to treatments of the mechanisms of resistance the problems encountered with field testing and key ethical issues surrounding transgenic technology Although Plant Virology Protocols deals with the cloning and expression of the coat protein gene the techniques described can be equally applied to other viral genes and nucleotide sequences many of which have also been shown to afford protection when introduced into plants The coat protein has however been the most widely applied and as such has been selected to illustrate the techniques involved Plant Virology Protocols has been divided into six major sections containing 55 chapters in total

Molecular Biomethods Handbook John M. Walker, Ralph Rapley, 2008-11-04 Recent advances in the biosciences have led to a range of powerful new technologies particularly nucleic acid protein and cell based methodologies The most recent insights have come to affect how scientists investigate and define cellular processes at the molecular level Molecular Biomethods Handbook 2nd Edition expands upon the techniques included in the first edition providing theory outlines of practical procedures and applications for a range of techniques Part A of the book describes nucleic acid methods such as gene expression profiling microarray analysis and quantitative PCR In Part B protein and cell based methods are outlined in subjects ranging from protein engineering to high throughput screening Written by a well established panel of research scientists Molecular Biomethods Handbook 2nd Edition provides an up to date collection of methods used regularly in the authors own research programs This book will prove to be an invaluable reference for those engaged in or entering the field of molecular biology and will provide the necessary background for those interested in setting up and using the latest molecular techniques

PCR in Bioanalysis Stephen J Meltzer, 2008-02-03 PCR in Bioanalysis offers powerful PCR based protocols and assays in actual use or potential use in clinical medicine and commercial biology The main focus of the book is on the commercial applications of PCR as opposed to basic research uses Topics covered include the measurement of hormone levels using PCR transcription factor isolation detection of viruses using PCR detection of tumor contamination of stem cells evaluation of grafts for tumor cells and more

Epitope Mapping Olwyn M. R. Westwood, Frank C. Hay, 2001 Epitope Mapping covers all the major methods for the identification and definition of epitopes This book is intended for researchers in academia and industry involved with epitope mapping

Confocal Microscopy Stephen W. Paddock, 2008-02-03 [Receptor Binding Techniques](#) Mary Keen, 1999 This cutting edge collection of step by step experimental protocols demonstrates

Vertebrate and Invertebrate Respiratory Proteins, Lipoproteins and other Body Fluid Proteins Ulrich Hoeger, J. Robin Harris, 2020-03-18 This book focuses on respiratory proteins the broad hemoglobin family as well as the molluscan and

arachnid hemocyanins and their multifunctional roles Featuring 20 chapters addressing invertebrate and vertebrate respiratory proteins lipoproteins and other body fluid proteins and drawing on the editors extensive research in the field it is a valuable addition to the Subcellular Biochemistry book series The book covers a wide range of topics including lipoprotein structure and lipid transport diverse annelid crustacean and insect defense proteins and insect and vertebrate immune complexes It also discusses a number of other proteins such as the hemerythrins serum albumin serum amyloid A von Willebrand factor and its interaction with factor VIII and C reactive protein Given its scope the book appeals to biologists biomedical scientists and clinicians as well as advanced undergraduates and postgraduates in these disciplines Available as a printed book and also as an e book and e chapters the fascinating material included is easily accessible

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Current Protocols in Immunology John E. Coligan, 1991 *Current Protocols in Immunology* is a three volume looseleaf manual that provides comprehensive coverage of immunological methods from classic to the most cutting edge including antibody detection and preparation assays for functional activities of mouse and human cells involved in immune responses assays for cytokines and their receptors isolation and analysis of proteins and peptides biochemistry of cell activation molecular immunology and animal models of autoimmune and inflammatory diseases Carefully edited step by step protocols replete with material lists expert commentaries and safety and troubleshooting tips ensure that you can duplicate the experimental results in your own laboratory Bimonthly updates which are filed into the looseleaf keep the set current with the latest developments in immunology methods The initial purchase includes one year of updates and then subscribers may renew their annual subscriptions *Current Protocols* publishes a family of laboratory manuals for bioscientists including *Molecular Biology* *Human Genetics* *Protein Science* *Cytometry* *Cell Biology* *Neuroscience* *Pharmacology and Toxicology*

Practical Protocols in Molecular Biology Yongming Li, Yuqi Zhao, 1996

Short Protocols in Molecular Biology Frederick M. Ausubel, 1999-05-03 *Short Protocols in Molecular Biology* Fourth Edition *The Desktop Guide to Your Lab* Edited by Frederick M Ausubel Roger Brent Robert E Kingston David D Moore J G Seidman John A Smith and Kevin Struhl Providing condensed descriptions of more than 600 methods compiled from *Current Protocols in Molecular Biology* this updated edition of the classic laboratory manual thoroughly explores molecular biology in

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