

MAKING AND USING ANTIBODIES

A PRACTICAL HANDBOOK

EDITED BY

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Antibodies are an indispensable tool in the study of biology and medicine. **Making and Using Antibodies: A Practical Handbook** presents techniques in a single, comprehensive source for the production and use of antibodies. It enables researchers to immediately access lab-tested, proven protocols.

Written and edited by an elite team of scientists, who have developed and refined many of the methods, this book covers commercially available adjuvants designed for the production of antisera in the research setting, methods for the production, purification, and characterization of antibodies, and practical guidance to researchers needing to modify antibodies. It elucidates basic techniques including enzyme-linked immunosorbent assay (ELISA), Western blotting, immunohistochemistry, and flow cytometry and methods for applying immunolabeling to the realm of electron microscopy (EM). Finally, this essential handbook addresses new antibody sources and new ways to use antibodies.

Making and Using Antibodies: A Practical Handbook also offers invaluable insight into future directions, challenges, and opportunities both in research and industrial applications.

FEATURES

- Describes basic laboratory techniques in detail, accompanied by practical examples
- Contains an outstanding selection of references for follow-up work
- Includes cross-referencing of methods allowing for easy access to information
- Illustrates the importance of ethical considerations and safety in laboratory research
- Features introductory material for each chapter, providing a better understanding of the methods and applications
- Examines potential problems and notes trouble-shooting tips



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