

Antibodies in Cell Biology - 9780080859354 - 452 pages - 1993 - Academic Press, 1993

Small Molecules in Cells. A Cell Is Formed from Carbon Compounds. Cells Contain Four Major Families of Small Organic Molecules. Cells Make Use of Many Other Activated Carriers. The Synthesis of Biological Polymers Requires an Energy Input. All Proteins Bind to Other Molecules. There Are Billions of Different Antibodies, Each with a Different Binding Site. Enzymes Are Powerful and Highly Specific Catalysts. Lysozyme Illustrates How an Enzyme Works. Antibodies are antigen specific and binds to foreign molecules to host. They are produced by activated B-cells. Antibodies are first molecules participating in specific immune response. They mediate effector function to neutralize or eliminate foreign invaders. Immunoglobulin classes or Isotypes. Level of IgE antibody in blood of normal individual is very low and its level increases during parasitic infection and in allergic reactions. Antibody: Structure, classes and functions. antibody class. Antibodies in Cell Biology focuses on a new generation of protocols aimed at the cell biologist. This laboratory manual features systems and techniques that are especially relevant for modern problems. The book is designed for any researcher or student who needs to use antibodies in cell biology and related research areas. Key Features * Practical applications and future emphases of antibodies, including: * Light microscopic immunolocalization of antigens * Gold particles in immunoelectron microscopy * Special methods of fixation and permeabilization * Microinjection of antibodies into living cells * Antibodies to identify cDNA clones * Antisense antibody strategies ...more. ESSENTIALthird edition CELL BIOLOGY This page is intentionally left blank. ESSENTIAL third edition CELL BIOLOGY Alberts Bray Hopkin Johnson Lewis Raff Roberts walter Garland Science Essential Cell Biology Interactive Vice President: Denise Schanck For 12 years he served as President of the Martin Raff received his M.D. from McGill University and is U.S. National Academy of Sciences (1993-2005). at the Medical Research Council Laboratory for Molecular Dennis Bray received his Ph.D. from Massachusetts Institute Cell Biology and Cell Biology Unit and in the Biology of Technology and is currently an active emeritus. Antibodies in Cell Biology focuses on a new generation of protocols aimed at the cell biologist. This laboratory manual features systems and techniques that are especially relevant for modern problems. The contributing authors have been carefully chosen for their specific expertise, and have provided detailed protocols, recipes, and troubleshooting guides in each chapter. The book is designed for any researcher or student who needs to use antibodies in cell biology and related research areas. Key Features. Practical applications and future emphases of antibodies, including