



Antibodies

Thomas Boenisch, MS, and Jim Hudson, PhD

Immunoglobulins

The vertebrate immune system has the amazing ability to create millions of different antibodies with different specificities. It is their ability to recognize specific antigens that makes antibodies so useful for fighting disease or as tools for disease diagnosis. The interaction of antibody and antigen is pivotal to immunodiagnostic assays. This chapter will focus on antibodies, their structure and behavior.

Immunoglobulins, the antibody molecules, are delineated into five major classes: immunoglobulin G (IgG), IgA, IgM, IgD and IgE. Of the five classes of immunoglobulins, IgG and IgM will be considered in more detail, as they are by far the most frequently utilized antibodies in immunochemistry. Unless otherwise noted, most of what is described of the IgG structure in this text was learned from studies with human IgG of subclass IgG₁.

The IgG molecule can be separated into two types of protein chains: light (L) and heavy (H) chains (Figure 1). Each IgG molecule is composed of two identical heavy chains (H) and two identical light chains (L). The H chains determine the class and subclass of the molecule. The two light chains are either type kappa or lambda. Whereas in human IgG the overall ratio of kappa to lambda is 2:1, in the subclasses IgG₁ and IgG₂, for example, the ratios are 1:1 and 8:1, respectively. Mice have approximately 95% kappa chains and, therefore, most monoclonal IgG antibodies from this species have kappa chains. Disulfide bridges join the light and heavy chains together.

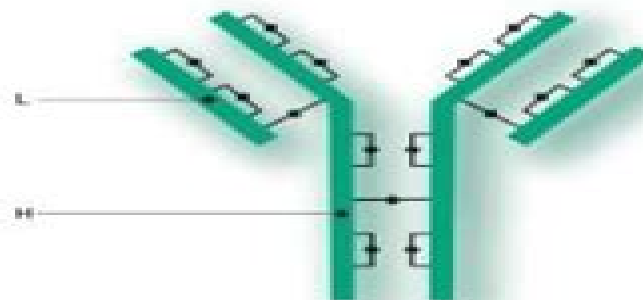


Figure 1. Immunoglobulin Molecule. The molecule is comprised of two identical heavy chains (H) and two identical light chains (L), with inter- and intrachain disulfide bonds for stability.

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Atlas of Hematopathology Faramarz Naeim, 2012-12-31 As the definitive diagnostic atlas of the diseases of the hematopoietic system the Atlas of Hematopathology appeals to a wide range of people who are being trained in a variety of medical fields or practicing as non hematopathologists and therefore are looking for a book which can provide information in a clear focused format with no excessive text or details The atlas offers effective guidance in evaluating specimens from the lymph nodes bone marrow spleen and peripheral blood enabling clinicians to deliver more accurate and actionable pathology reports Practicing physicians and those in pathology and hematology training also gain a better understanding of the nature of hematologic disorders and improve their diagnostic skills along the way Taking a unique multi disciplinary approach the book covers conventional histopathology and cytopathology as well as all important complementary diagnostic tests such as immunophenotyping immunohistochemical stains and flow cytometry karyotyping FISH and DNA molecular studies It offers concise textual and extensive visual coverage of both neoplastic and non neoplastic hematology disorders with the neoplastic hematology sections presented according to the most recent WHO classifications There is also an introduction to the normal structures of hematopoietic tissues and the various multidisciplinary techniques The atlas contains more than 900 high quality color images that mirror the findings that fellows and clinicians encounter in practice It provides information in a quick simple and user friendly manner attracting those who are in training or are not considered experts in the field Residents fellows practicing clinicians and researchers in pathology hematology oncology as well as graduate students in pathology and other clinicians working in clinical hematology laboratories will all find it useful Saves clinicians and researchers time in quickly accessing the very latest details on the diverse clinical and scientific aspects of hematopathology as opposed to searching through thousands of journal articles For clinicians fellows and residents correct diagnosis and therefore correct treatment of diseases depends on a strong understanding of the molecular basis for the disease hematologists pathologists oncologists and other clinicians will benefit from this clear focused annotated format Companion web site features over 900 images from the book

Hematopathology Faramarz Naeim, P. Nagesh Rao, Wayne W. Grody, 2009-03-05 This comprehensive full color hematopathology reference book emphasizes immunophenotypic features cytogenetic studies and diagnostic molecular aspects Hematopathology begins with introductions to morphologic evaluation of the hematopoietic tissues and principles of immunophenotyping cytogenetics and molecular studies followed by chapters dedicated to different types of hematologic disorders Each chapter starts with a basic overview of hematopathology followed by a comprehensive review of immunophenotypic cytogenetic and molecular findings The text is balanced with large numbers of full color images graphs charts and tables to assist the reader in understanding these highly technical issues Emphasizes the immunophenotypic features cytogenetic studies and diagnostic molecular aspects of hematology Features hundreds of images charts and tables for the identification of hematologic disorders not only based on histopathologic

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Flow Cytometry Today Claudio Ortolani, 2022-11-16 This book covers all the technical aspects of flow cytometry needed to set up the instrument solve problems encountered in daily work or necessary for exam preparation It provides the reader with an in depth look at the device and its applications Each component and its function is described in an easy to understand manner giving the reader a sound basic knowledge of this instrument The practical examples given simplify and enhance the learning process This book is a unique resource of knowledge for biomedical engineers and biotechnologists flow cytometry operators laboratory technicians and biomedical researchers both biologists as well as medical doctors and can also be a helpful tool for companies and manufacturers

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Alston, 2016-01-07 This directory provides the reader with quick access to information on more than 8000 companies research centres and academic institutions involved in new and established technologies This edition offers more than 600 all new organization listings including new listings in Europe

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Human Stem Cell Manual Suzanne Peterson, Jeanne F. Loring, Robin L. Wesselschmidt, Philip H. Schwartz, 2011-10-10 Stem cells are self replicating and undifferentiated meaning their function is not yet cell tissue or organ specific Due to the unique nature of these cells research into their biology and function holds great promise for therapeutic applications through replacement or repair of diseased and damaged cells This reader friendly manual provides a practical hands on guide to the culture of human embryonic and somatic stem cells By presenting methods for embryonic and adult lines side by side the authors lay out an elegant and unique path to understanding the science of stem cell practice The authors begin with a broad based introduction to the field and also review legal and regulatory issues and patents Each experimental strategy is presented with an historical introduction detailed method discussion of alternative methods and common pitfalls This lab guide for researchers also serves as a textbook for undergraduate and graduate students in laboratory courses Advances in Human Immune System (HIS) Mouse Models for Studying Human Hematopoiesis and Cancer Immunotherapy Yasuyuki Saito, Alexandre P. A. Theodorides, Tim Willinger, 2022-02-10 Topic Editor Prof Aimin Xu receives financial support from Servier Laboratories The other Topic Editors declare no competing interests with regards to the Research Topic theme

The Medical and Healthcare Marketplace Guide Adeline B. Hale, Arthur B. Hale, 1991 Host-pathogen Interaction in Central Nervous System Infection Federico Iovino, Tatiana Barichello, 2022-02-04

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