



## 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 IgG<sub>1</sub>.

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 IgG<sub>1</sub> and IgG<sub>2</sub>, 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.

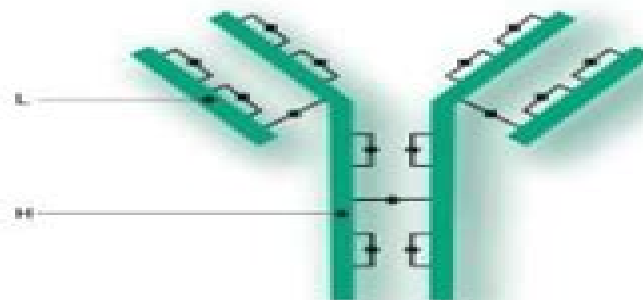


Figure 1. Immunoglobulin Molecule. The molecule is comprised of two identical heavy chains (H) and two identical light chains (L), with inter- and intrachain disulfide bonds for stability.

# Guide To Flow Cytometry Dakocytomation

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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 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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*Pathobiology of Human Disease*, 2014-08-01 Pathobiology of Human Disease bridges traditional morphologic and clinical pathology molecular pathology and the underlying basic science fields of cell biology genetics and molecular biology which have opened up a new era of research in pathology and underlie the molecular basis of human disease The work spans more than 48 different biological and medical fields in five basic sections Human Organ Systems Molecular Pathology Basic Mechanisms of Diseases Animal Models Other Model Systems Experimental Pathology Clinical Pathology Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from research professionals to advanced undergraduate students Reviews quantitative advances in the imaging and molecular analysis of human tissue new microarray technologies for analysis of genetic and chromosomal alterations in normal and diseased cells and tissues and new transgenic models of human disease using conditional tissue specific gene targeting

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