Antigen Retrieval Immunohistochemistry Based Research and Diagnostics
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DESCRIPTION

The most complete, up-to-date reference on antigen retrieval and immunohistochemistry

An antigen is a substance that prompts the generation of antibodies and can cause an immune response. The antigen retrieval (AR) technique is in wide use across the globe, and is a critical technique used in medical diagnosis of disease, particularly clinical targeted cancer treatment.

Antigen Retrieval Immunohistochemistry Based Research and Diagnostics discusses several scientific approaches to the standardization of quantifiable immunohistochemistry (IHC). Based on the development and application of AR by the editors, this volume summarizes recent achievements in AR-IHC and analyzes numerous cutting-edge issues for future research projects.

Featuring contributions from a worldwide group of leading experts and research scientists in the field, this important work:

• Summarizes the key problems in the four fields of antigen retrieval

• Discusses the advances of AR techniques and their applications

• Provides practical methods and protocols in AR-IHC, such as extraction of nucleic acids and proteins for molecular analysis, cell/tissue sample preparation, and standardization and development of various techniques to meet the future needs of clinical and research molecular analysis
• Encourages further research in AR and IHC, particularly how AR methods might be employed for improved test performance and the development of greater reliability and reproducibility of IHC

• Includes an appendix of related laboratory protocols

Antigen Retrieval Immunohistochemistry Based Research and Diagnostics is intended for clinical pathologists, molecular cell biologists, basic research scientists, technicians, and graduate students who undertake tissue/cell morphologic and molecular analysis and wish to use and extend the power of immunohistochemistry. It is also pertinent for most biotechnology companies majoring in development of IHC products.

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ABOUT THE AUTHOR

Shan-Rong Shi, MD, is professor of clinical pathology at the Keck School of Medicine of the University of Southern California. He is the Associate Editor of The Journal of Histochemistry and cytochemistry, he is on the Editorial Board of Applied Immunohistochemistry and Molecular Morphology and is also on the Overseas Editorial Board of the Chinese Journal of Pathology. Dr. Shi is the inventor of the antigen retrieval (AR) technique.

Clive R. Taylor, MD, PhD, is Senior Associate Dean, Professor and Chairman of Pathology at the Keck School of Medicine. Dr. Taylor is Editor in Chief of Applied Immunohistochemistry and Molecular Morphology. Dr. Taylor is a world renowned expert in immunohistochemistry and clinical pathology.

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