

Immunohistochemistry: Essential Elements and Beyond (Techniques in Life Science and Biomedicine for the Non-Expert)

By Alexander E. Kalyuzhny



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Aimed at both beginners and experienced researchers unfamiliar with the technique, this book provides a concise and easy-to-understand guide to using immunohistochemistry. It identifies the proper place and purpose of each component of immunohistochemistry, emphasizes the components that are of critical importance, and explains the logistics of experimental approaches. Understanding the principles of immunohistochemistry allows for the identification and localization of protein targets and is of crucial use in the following experiments:

- producing transgenic animals
- · studying the effects of drug treatments
- · electrophysiological studies
- · animal surgery
- · isolating and differentiating stem cells
- · super-resolution microscopy

Immunohistochemistry for the Non-Expert is aimed at a wide audience, including molecular biologists, pharmacologists, immunologists, chemists, cell biologists, physiologists, and researchers involved with animal anatomy studies.



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• Sales Rank: #2943751 in Books • Published on: 2016-03-25 • Original language: English

• Number of items: 1

• Dimensions: 9.21" h x .31" w x 6.14" l, .0 pounds

• Binding: Hardcover

• 85 pages

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Editorial Review

From the Back Cover

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About the Author

Alexander E. Kalyuzhny graduated in 1981 from the Biological Department of the Saratov State University in Russia. After graduation, he performed research on the effects of narcotic drugs on the morphogenesis of early embryos, which he defended as his Ph.D. thesis in 1987. In 1992, Dr. Kalyuzhny was invited to join the Department of Pharmacology at the University of Minnesota (USA), where he is currently affiliated with the Department of Neuroscience. He is the author of 31 papers in peer-reviewed journals and 16 book chapters, and has served as the editor of 3 books (Humana Press/Springer). He is also the editor-in-chief of the openaccess journal *Cells*.

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