

# Monoclonal Antibody Production Techniques and Applications, ISSN 0092-6019 / 9780824776404 / 316 pages / Lawrence B. Schook / 1987 / Dekker, 1987

The production and application of rodent and human monoclonal antibodies. 0.0 star rating Write a review. Author: A.M. Campbell. Chapter 1. General properties and applications of monoclonal antibodies. 2. Assay techniques. 3. Selection of animals in which hybridomas may be generated. 4. Immunization. This highly practical book, and successor to Volume 13 in the Laboratory Techniques series, explores further and provides more comprehensive, authoritative information on the production of Mabs. Much new and illuminating material has been included covering the concepts behind the application of recombinant DNA technology and biosensor technology to monoclonal antibodies, and all the human Mab technology facilitated by PCR of antibody genes. Monoclonal Antibody Production. A Report of the Committee on Methods of Producing Monoclonal Antibodies. Institute for Laboratory Animal Research National Research Council. Serum antibody titer is determined with various techniques, such as enzyme-linked immunosorbent assay (ELISA) and flow cytometry. If the antibody titer is high, cell fusion can be performed. If the titer is too low, mice can be boosted until an adequate response is achieved, as determined by repeated blood sampling. If unpurified antibodies are sufficient for the research application, low-molecular-weight cutoff filtration devices that rely on centrifugation or gas pressure can be used to increase mAb concentration. A technique to produce monoclonal antibodies was devised by Georges Kohler and Cesar Milstein in 1975. The method relies on fusing B cells from an immunized animal (typically a mouse) with an immortal myeloma cell line and growing the cells under conditions in which the unfused normal and tumor cells cannot survive. Monoclonal antibodies have many practical applications in research, medical diagnosis and therapy. Some of their common applications include the following: Identification of phenotypic markers unique to particular cell types. Springer, T. A., 1981, Monoclonal antibody analysis of complex biological systems: Combination of cell hybridization and immunoadsorbents in a novel cascade procedure and its application to the macrophage cell surface, J. Biol. Chem. 256:3833-3840. PubMedGoogle Scholar. Cite this chapter as: Eshhar Z. (1985) Monoclonal Antibody Strategy and Techniques. In: Springer T.A. (eds) Hybridoma Technology in the Biosciences and Medicine. Springer, Boston, MA. [https://doi.org/10.1007/978-1-4684-4964-8\\_1](https://doi.org/10.1007/978-1-4684-4964-8_1). Start by marking "Monoclonal Antibody Production Techniques And Applications" as Want to Read: Want to Read saving | Want to Read. We'd love your help. Let us know what's wrong with this preview of Monoclonal Antibody Production Techniques And Applications by Lawrence B. Schook. Problem: It's the wrong book It's the wrong edition Other.