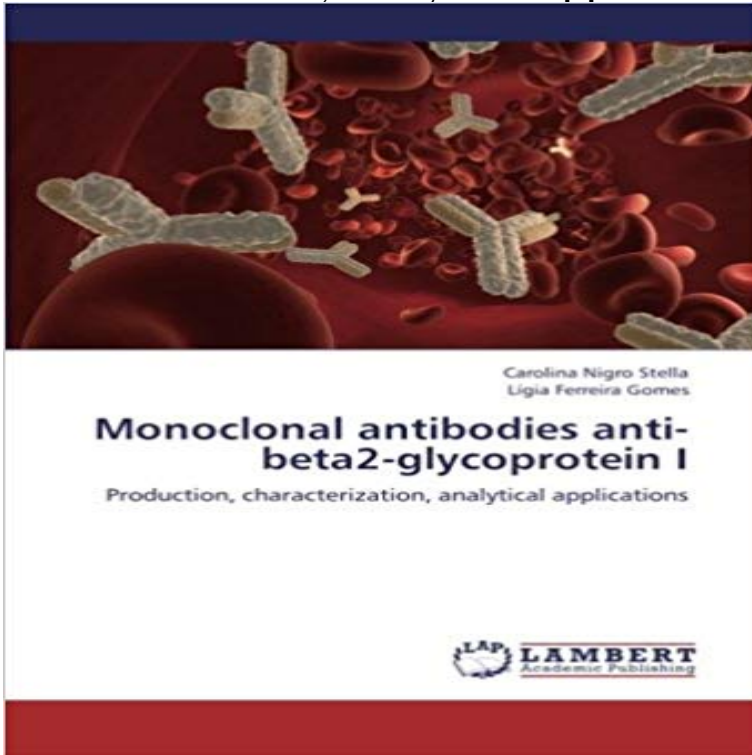


# Monoclonal antibodies anti-beta2-glycoprotein I: Production, characterization, analytical applications



Beta2-glycoprotein I ( $\beta$ 2GPI) detection is important for the accurate diagnosis of autoimmune and chronic inflammatory disease. This book describes the main steps towards a successful obtaining, initial characterization, analytical applications and lab-scale production of a set of anti- $\beta$ 2GPI monoclonal antibodies. The  $\beta$ 2GPI antigen purification was comprehensively explored and six different hybridomas were obtained after cell fusion of immunized mouse lymphocytes with SP2-O murine myeloma cells. The antibodies were purified after hybridomas expansion from ascites (in vivo) and conventional cell culture (in vitro) and their reactivity was evaluated towards the  $\beta$ 2GPI antigen either adsorbed to solid phase support (Dot-Blot, immunoblotting, direct ELISA), or in solution (indirect ELISA).  $\beta$ 2GPI recognition was achieved with one of the clones in paraffin embedded tissues (immunohistochemistry), and in blood and lymph (ELISA). The application of  $\beta$ 2GPI recognition to a sepsis and bacterial translocation animal model granted an unexpected and exciting sequence of achievements concerning the pathophysiology of autoimmunity control by this protein.

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