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Product title Anti-M2-3E ELISA

Anti-M2-3E ELISA



A new ELISA based on a designer recombinant fusion protein provides unparalleled sensitivity for detection of autoantibodies against the mitochondrial antigen M2 (AMA-M2) in the diagnosis of primary biliary cirrhosis (PBC), an immune-mediated chronic inflammatory cholestatic liver disease of unknown aetiology. The novel fusion protein combines the immunogenic domains of all three relevant enzyme complexes (3E) of the M2 antigen, presenting them in a defined stoichiometric relationship. This designer antigen is used together with the classical target antigen, native pyruvate dehydrogenase, in the Anti-M2-3E ELISA. The extended antigen spectrum and the resulting increase in diagnostic efficiency make the test a powerful new tool for PBC diagnostics. In a study with 170 sera from clinically characterised PBC patients the new Anti-M2-3E ELISA demonstrated a 14% higher sensitivity than a conventional Anti-M2 ELISA (93% compared to 79% at a specificity of 98%).

Up to 94% of PCB patients exhibit AMA-M2 and these constitute the most important serological marker. The majority of M2-specific autoantibodies are directed against the enzyme pyruvate dehydrogenase, and many commercial ELISAs are based solely on this main target antigen.

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