

MONOCLONAL ANTIBODIES TO APOLIPOPROTEIN B EPITOPES OF HUMAN LOW DENSITY LIPOPROTEINS

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ABSTRACT

Low density lipoproteins (LDL) in human serum bind to cholesterol and their concentration is used as one indicator of cardiovascular health. Experiments have indicated that a particular form of LDL may be linked to the development of atherosclerosis. Scientists at UCB have isolated monoclonal antibodies against apolipoprotein B epitopes on LDL. The antibodies can be used as probes for the study of apolipoprotein structure and overall LDL conformation. The antibodies specifically bind to distinct epitopes that map to discrete proteolytic fragments of apolipoprotein B.

Reference:

Clinica Chimica Acta (1990) v191.pp153-160

APPLICATIONS

Measurement of plasma LDL cholesterol concentrations (LDL-C) by direct isolation of LDL from plasma.

Measurement of plasma LDL apolipoprotein B levels.

ADVANTAGES

The antibodies facilitate studies on the structure of LDL and the apolipoprotein component of LDL

Avoids aggregation and insolubility problems associated with apolipoprotein research.

MAb 4B5 can recognize apo B only in LDL particles.

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OTHER INFORMATION

KEYWORDS

antibody, research tool

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