Apolipoprotein A I (APOA1) Mouse Monoclonal Antibody [Clone ID: 1404]

Product data:

Product Type: Primary Antibodies
Clone Name: 1404
Applications: ELISA, R
Recommend Dilution: Competitive RIA. ELISA.
Reactivity: Human
Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
Immunogen: Purified human plasma Apo A-I
Specificity: Highly specific for APO A-I, no cross reactivity with APO A-II or Apo B.
Formulation: 0.015 M PBS, 0.15 M NaCl, pH 7.2 with 0.09 % Sodium Azide as preservative
State: Purified
State: Liquid purified IgG fraction
Concentration: Lot specific
Purification: DEAE-chromatography
Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability: Shelf life: one year from despatch.
Database Link: Entrez Gene 335 Human
Background: Apolipoprotein A I promotes cholesterol efflux from tissues to the liver for excretion. Apolipoprotein A I is the major protein component of high density lipoprotein (HDL) in the plasma. Synthesized in the liver and small intestine, it consists of two identical chains of 77 amino acids; an 18 amino acid signal peptide is removed co-translationally and a 6 amino acid propeptide is cleaved post-translationally. Apolipoprotein A I is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. Defects in the Apolipoprotein A I gene are associated with HDL deficiency and Tangier disease.

The therapeutic potential of apoA-I has been recently assessed in patients with acute coronary syndromes, using a recombinant form of a naturally occurring variant of apoA-I. The availability of recombinant normal apoA-I should facilitate further investigation into the potential usefulness of apoA-I in preventing atherosclerotic vascular diseases.

Synonyms: APOA1, ApoA-I, Apo-Al, ApoAl