

Basic Information

Product Name	Anti-Apolipoprotein AI/APOA1 Antibody (Clone#17G5)
Gene Name	APOA1
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human
Tested Application	WB, ELISA(Cap)
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived mouse Apolipoprotein A I recombinant protein (Position: D25-Q264). Mouse Apolipoprotein A I shares 64% and 68.6% amino acid (aa) sequence identity with human and rat Apolipoprotein A I, respectively.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	25 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA(Cap): 1:50-1:200

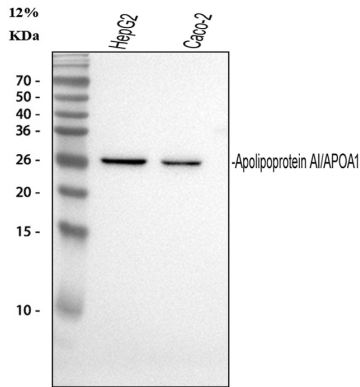
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Apolipoprotein A-1, also known as APOA1, is a human protein with a specific role in lipid metabolism. It binds to lipopolysaccharide or endotoxin, and has a major role in the anti-endotoxin function of HDL. The gene is mapped to 11q23. And it is a single polypeptide chain with 243 amino acid residues of known primary amino acid sequence. The ApoA-I protein promotes cholesterol efflux from tissues to the liver for excretion. It is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. ApoA-I is also isolated as a prostacyclin (PGI₂) stabilizing factor, and thus may have an anticlotting effect. Defects in the gene encoding it are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Additionally, ApoA-I overexpression promotes macrophage-specific reverse cholesterol transport.

Selected Validation Data



Western blot analysis of Apolipoprotein AI/APOA1 using anti-

Apolipoprotein AI/APOA1 antibody (M00717-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

Lane 2: human Caco-2 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Apolipoprotein AI/APOA1 antigen affinity purified monoclonal antibody (M00717-1) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Apolipoprotein AI/APOA1 at approximately 25 kDa. The expected band size for Apolipoprotein AI/APOA1 is at 31 kDa.