

Anti-APOA1 Antibody



Description

This gene encodes apolipoprotein A-I, which is the major protein component of high density lipoprotein (HDL) in plasma. The encoded preproprotein is proteolytically processed to generate the mature protein, which promotes cholesterol efflux from tissues to the liver for excretion, and is a cofactor for lecithin cholesterolacyltransferase (LCAT), an enzyme responsible for the formation of most plasma cholesteryl esters. This gene is closely linked with two other apolipoprotein genes on chromosome 11. Defects in this gene are associated with HDL deficiencies, including Tangier disease, and with systemic non-neuropathic amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein.

Model

STJ116143

Host

Rabbit

Reactivity

Human, Mouse

Applications

IF, WB

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 25-267 of human APOA1 (NP_000030.1).

Gene ID

[335](#)

Gene Symbol

[APOA1](#)

Dilution range

WB 1:500 - 1:2000
IF 1:50 - 1:200

Tissue Specificity

Major protein of plasma HDL, also found in chylomicrons, Synthesized in the liver and small intestine, The oxidized form at Met-110 and Met-136 is increased in individuals with increased risk for coronary artery disease, such

as in carrier of the eNOSa/b genotype and exposure to cigarette smoking, It is also present in increased levels in aortic lesions relative to native ApoA-I and increased levels are seen with increasing severity of disease

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Apolipoprotein A-I Apo-AI ApoA-I Apolipoprotein A1
Molecular Weight	30.778 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:600OMIM:105200Reactome:R-HSA-114608
Alternative Names	Apolipoprotein A-I Apo-AI ApoA-I Apolipoprotein A1
Function	Participates in the reverse transport of cholesterol from tissues to the liver for excretion by promoting cholesterol efflux from tissues and by acting as a cofactor for the lecithin cholesterol acyltransferase (LCAT), As part of the SPAP complex, activates spermatozoa motility,
Cellular Localization	Secreted
Post-translational Modifications	Glycosylated,