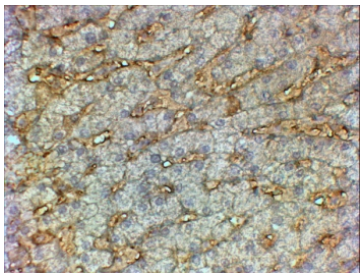
APOA1 Antibody Goat Polyclonal / Apolipoprotein A1 (R35834)

Catalog No.	Formulation	Size
R35834-100UG	0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Goat
Clonality	Polyclonal (goat origin)
Isotype	Goat Ig
Purity	Antigen affinity
Gene ID	335
Localization	Cytoplasmic, membranous
Applications	Immunohistochemistry (FFPE): 2-4ug/ml ELISA (peptide) LOD: 1:16000
Limitations	This APOA1 antibody is available for research use only.



APOA1 Antibody Goat Polyclonal IHC. Immunohistochemistry analysis of APOA1 / Apolipoprotein A1 antibody in human liver tissue. Formalin-fixed, paraffin-embedded liver demonstrates cytoplasmic HRP-DAB brown staining in hepatocytes, consistent with the known synthesis and secretion of ApoA-I in liver parenchymal cells. Staining appears predominantly granular within the cytoplasm, reflecting intracellular protein prior to secretion. Background staining is minimal, and hematoxylin counterstain highlights hepatic architecture. Heat-induced epitope retrieval was performed by steaming tissue sections in pH 6 citrate buffer prior to HRP-based detection.

Description

APOA1 Antibody Goat Polyclonal recognizes Apolipoprotein A1, the major protein component of high-density lipoprotein (HDL) particles encoded by the APOA1 gene. Also commonly referred to as ApoA-I, Apolipoprotein A-I, and ApoA1, this secreted protein plays a central role in reverse cholesterol transport by promoting the efflux of cholesterol from peripheral tissues to the liver for excretion. APOA1 antibody is widely used in cardiovascular and metabolic research to evaluate

HDL biology, lipid metabolism, and liver function.

Apolipoprotein A1 is synthesized primarily in hepatocytes and enterocytes and is secreted into the circulation, where it associates with phospholipids to form nascent HDL particles. The protein contains amphipathic alpha-helical domains that enable lipid binding and interaction with ATP-binding cassette transporters such as ABCA1. Through activation of lecithin-cholesterol acyltransferase, ApoA-I facilitates the esterification of cholesterol and maturation of HDL particles. APOA1 antibody supports investigation of these pathways in serum, liver tissue, and other experimental systems focused on lipid homeostasis.

Altered APOA1 levels have been associated with cardiovascular disease, metabolic syndrome, diabetes, and inflammatory conditions. Reduced circulating ApoA-I concentrations are correlated with increased atherosclerotic risk, whereas elevated HDL-associated ApoA-I is generally considered protective in epidemiological studies. In addition to its lipid transport functions, Apolipoprotein A1 has been implicated in anti-inflammatory and antioxidant activities. Immunostaining typically demonstrates extracellular and cytoplasmic localization in hepatocytes and intestinal epithelium, reflecting synthesis and secretion. This goat polyclonal APOA1 antibody is suitable for detecting Apolipoprotein A1 in research applications involving lipid metabolism, cardiovascular biology, and liver-associated studies.

For a broadly validated polyclonal option, see our APOA1 Antibody / Apolipoprotein A1 Antibody page.

Application Notes

Optimal dilution of the APOA1 Antibody Goat Polyclonal should be determined by the researcher.

Immunogen

Amino acids SALEEYTKKLNTQ were used as the immunogen for this APOA1 antibody.

Storage

Aliquot and store the APOA1 antibody at -20oC.

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