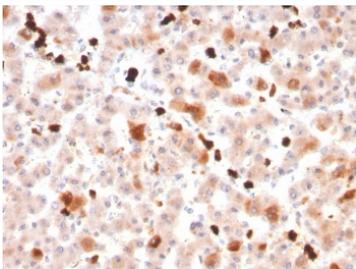


## APOA1 Antibody Mouse Monoclonal [clone APOA1/3661] (V8388)

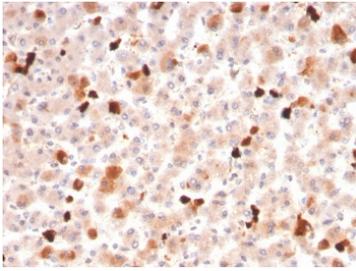
Catalog No.	Formulation	Size
V8388-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8388-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8388SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

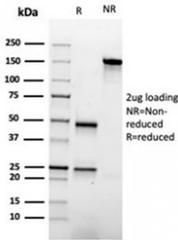
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	APOA1/3661
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P02647
<b>Localization</b>	Secreted
<b>Applications</b>	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
<b>Limitations</b>	This APOA1 antibody is available for research use only.



Immunohistochemistry analysis of APOA1 / Apolipoprotein A1 antibody in human liver tissue. Formalin-fixed, paraffin-embedded liver demonstrates cytoplasmic HRP-DAB brown staining within hepatocytes, consistent with the known synthesis and secretion of ApoA-I in hepatic parenchymal cells. Staining appears predominantly granular within the cytoplasm, reflecting intracellular protein prior to secretion, with minimal background in non-parenchymal regions. Hematoxylin counterstain highlights hepatic architecture and nuclei. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to staining.



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 hepatic synthesis of ApoA-I. The staining pattern is predominantly granular within the cytoplasm, reflecting intracellular protein associated with secretion pathways, while nuclei remain hematoxylin counterstained and negative. Background staining is minimal. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to staining.



SDS-PAGE analysis of purified, BSA-free APOA1 antibody as confirmation of integrity and purity.

## Description

APOA1 antibody recognizes Apolipoprotein A1, the major structural and functional protein component of high-density lipoprotein particles encoded by the APOA1 gene. Also known as Apolipoprotein A I and ApoA-I, this secreted protein plays a central role in reverse cholesterol transport, mediating the removal of excess 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-associated protein expression.

Apolipoprotein A1 is synthesized primarily in hepatocytes and intestinal enterocytes and is secreted into the bloodstream, where it associates with phospholipids to form nascent HDL particles. The protein contains multiple 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 promotes cholesterol esterification and HDL maturation. APOA1 antibody supports investigation of these pathways in serum, liver tissue, and experimental systems focused on cholesterol homeostasis.

Altered APOA1 levels have been associated with cardiovascular disease, atherosclerosis, metabolic syndrome, and inflammatory disorders. Reduced circulating ApoA-I concentrations are correlated with increased cardiovascular risk, whereas higher HDL-associated ApoA-I levels are generally considered protective in epidemiological studies. In addition to lipid transport functions, Apolipoprotein A1 has been implicated in anti-inflammatory and antioxidant mechanisms. Immunostaining typically demonstrates cytoplasmic localization in hepatocytes and extracellular distribution in vascular and plasma-associated compartments, consistent with its synthesis and secretion. Clone APOA1/3661 is a mouse monoclonal antibody designed to detect Apolipoprotein A1 in research applications investigating lipid metabolism, cardiovascular biology, and hepatic protein expression.

## Application Notes

Optimal dilution of the APOA1 antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 83-167 from the human protein was used as the immunogen for the APOA1 antibody.

## Storage

Store the APOA1 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

