OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AP22589PU-N Polyclonal Antibody to Apolipoprotein A I / APO AI - Purified

Alternate names: APOA1, Apo-AI, ApoA-I, ApoAI

Quantity: 50 µg

Concentration: 1 mg/ml

Background: APOA1 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. Variation in the latter step, in addition to modifications leading to so-called isoforms, is responsible for some of the polymorphism observed. APOA1 is a cofactor for lecithin cholesterolacyltransferase (LCAT) which is responsible for the formation of most plasma cholesteryl esters. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the C-III gene is transcribed convergently in relation to A-I. Defects in the apolipoprotein A-1 gene are associated with HDL deficiency and Tangier disease.

Uniprot ID: P02647

NCBI: NP_000030

GeneID: 335

Host: Goat

Immunogen: Apolipoprotein Type A-I was isolated from mouse plasma by density gradient centrifugation followed by HPLC purification
Genename: APOA1

Format: **State:** Liquid Ig fraction
Purification: Affinity Chromatography
Buffer System: 0.125 M sodium borate, 0.075 M sodium chloride, 0.005 M EDTA, pH 8.0, 0.01% sodium azide

Applications: **ELISA:** 1/5000 - 1/10000.
Immunohistochemistry on Paraffin Sections: 5 µg/ml.
Immunoprecipitation.
Western Blot: 1/500 - 1/1000.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

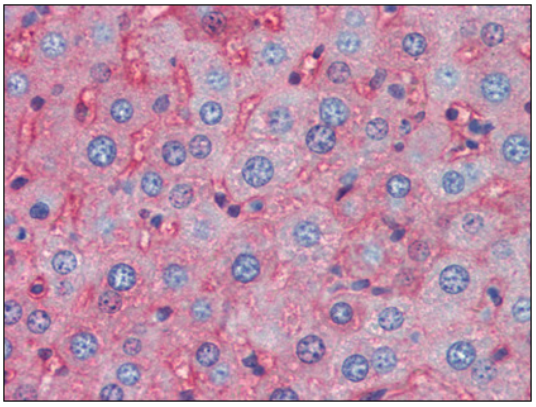
Specificity: Typically less than 1% cross-reactivity against other types of apoLipoprotein was detected by ELISA against purified standards. This antibody reacts with mouse apoLipoprotein A-I and has negligible cross-reactivity with Type A-II, B, C-I, C-II, C-III, E and J apoLipoproteins. Specific cross-reaction of anti-apoLipoprotein antibodies with antigens from other species has not been determined. Non-specific cross- reaction of anti-apoLipoprotein antibodies with other mouse serum proteins is negligible.

Species Reactivity: **Tested:** Mouse

Storage: Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. For extended storage, mix an equal volume of glycerol.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures:

Mouse Liver (formalin-fixed, paraffin-embedded) stained with APOA1 antibody AP22589PU-N followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Mouse Kidney (formalin-fixed, paraffin-embedded) stained with APOA1 antibody AP22589PU-N followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.