



Product datasheet

Anti-Apolipoprotein A V/APOA5 antibody [C6] ab239579

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Overview

Product name	Anti-Apolipoprotein A V/APOA5 antibody [C6]
Description	Mouse monoclonal [C6] to Apolipoprotein A V/APOA5
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment corresponding to Mouse Apolipoprotein A V/APOA5 aa 1-250. Two N-terminal Tags, His-tag and GST-tag (Expresses in E.coli). Database link: Q8C7G5 <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: Recombinant Mouse Apolipoprotein A V/APOA5 protein; Mouse liver tissue lysate. IHC-P: Mouse liver tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 44.12% PBS, 55.77% Glycerol (glycerin, glycerine)
Purity	Protein A/G purified
Purification notes	Purified from TCS.

Clonality	Monoclonal
Clone number	C6
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab239579 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 5 µg/ml.
IHC-P		Use a concentration of 5 - 30 µg/ml.

Target

Function Minor apolipoprotein mainly associated with HDL and to a lesser extent with VLDL. May also be associated with chylomicrons. Important determinant of plasma triglyceride (TG) levels by both being a potent stimulator of apo-CII lipoprotein lipase (LPL) TG hydrolysis and a inhibitor of the hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate) (By similarity). Activates poorly lecithin:cholesterol acyltransferase (LCAT) and does not enhance efflux of cholesterol from macrophages.

Tissue specificity Liver and plasma.

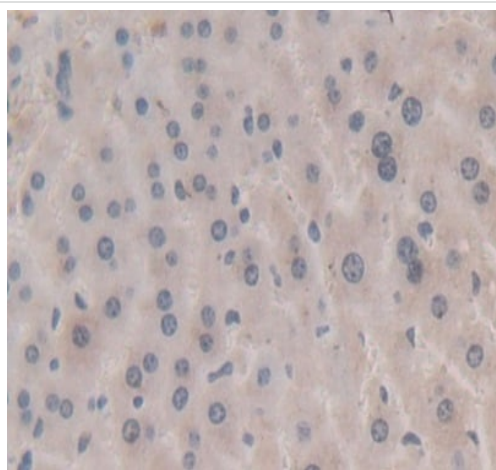
Involvement in disease Defects in APOA5 are a cause of susceptibility to familial hypertriglyceridemia (FHTR) [MIM:145750].mFamilial hypertriglyceridemia is a common inherited disorder in which the concentration of very low density lipoprotein (VLDL) is elevated in the plasma. This leads to increased risk of heart disease, obesity, and pancreatitis. Defects in APOA5 are a cause of hyperlipoproteinemia type 5 (HLPP5) [MIM:144650]. HLPP5 is characterized by increased amounts of chylomicrons and very low density lipoprotein (VLDL) and decreased low density lipoprotein (LDL) and high density lipoprotein (HDL) in the plasma after a fast. Numerous conditions cause this phenotype, including insulin-dependent diabetes mellitus, contraceptive steroids, alcohol abuse, and glycogen storage disease type 1A (GSD1A) [MIM:232200].

Sequence similarities Belongs to the apolipoprotein A1/A4/E family.

Post-translational modifications Phosphorylation sites are present in the extracellular medium.

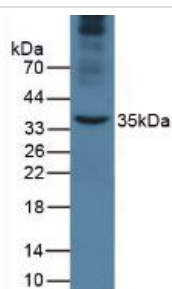
Cellular localization Secreted.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein A V/APOA5 antibody [C6] (ab239579)

Paraffin-embedded mouse liver tissue stained for Apolipoprotein A V/APOA5 using ab239579 at 30 µg/mL in immunohistochemical analysis. DAB staining.

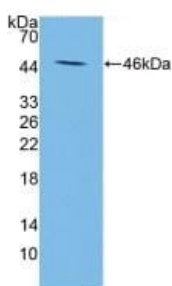


Western blot - Anti-Apolipoprotein A V/APOA5 antibody [C6] (ab239579)

Anti-Apolipoprotein A V/APOA5 antibody [C6] (ab239579) at 1 µg/ml + Mouse liver tissue lysate

Secondary

HRP-Linked Rabbit Anti-Mouse IgG at 1/5000 dilution



Western blot - Anti-Apolipoprotein A V/APOA5 antibody [C6] (ab239579)

Anti-Apolipoprotein A V/APOA5 antibody [C6] (ab239579) at 5 µg/ml + Recombinant Mouse Apolipoprotein A V/APOA5 protein

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