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Store at -20C
#5700

ApoA4 (1D6B6) Mouse mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Mouse IgG2a	UniProt ID: #P06727	Entrez-Gene Id: 337
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

ApoA4 (1D6B6) Mouse mAb recognizes endogenous levels of total ApoA4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant human ApoA4 protein.

Background

Apolipoproteins are plasma lipoproteins that function as transporters of lipids and cholesterol in the circulatory system. Chylomicrons are a fundamental class of apolipoproteins containing very low-density lipoproteins (VLDL), intermediate-density lipoproteins (IDL), low-density lipoproteins (LDL), and high-density lipoproteins (HDL) (1,2).
Apolipoprotein A-IV (ApoA4) is a glycoprotein that exists as a free apolipoprotein in human plasma (3,4). ApoA4 activates the lecithin cholesterol acyl transferase (5-7) to modulate the rate of lipid transfer protein (LTP) activity (7). Additional evidence suggests that ApoA4 may also act as an antioxidant to inhibit LDL oxidation in the atherosclerosis model (8).

Background References

1. Kwiterovich, P.O. (2000) *Am J Cardiol* 86, 5L-10L.
2. Hussain, M.M. (2000) *Atherosclerosis* 148, 1-15.
3. Utermann, G. and Beisiegel, U. (1979) *Eur J Biochem* 99, 333-43.
4. Hayashi, H. et al. (1990) *J Lipid Res* 31, 1613-25.
5. Steinmetz, A. and Utermann, G. (1985) *J Biol Chem* 260, 2258-64.
6. Chen, C.H. and Albers, J.J. (1985) *Biochim Biophys Acta* 836, 279-85.
7. Main, L.A. et al. (1996) *Biochim Biophys Acta* 1300, 17-24.
8. Wong, W.M. et al. (2007) *Atherosclerosis* 192, 266-74.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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