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Store at -20C
#5709

ApoM (8F12) Mouse mAb

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 21, 25	Source/Isotype: Mouse IgG2a	UniProt ID: #O95445	Entrez-Gene Id: 55937
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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

ApoM (8F12) Mouse mAb recognizes endogenous levels of both unglycosylated and glycosylated ApoM protein.

Species predicted to react based on 100% sequence homology

Mouse, Rat

Source / Purification

Monoclonal antibody is produced by immunizing animals with a purified recombinant fragment of human ApoM 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 M (ApoM) is a novel membrane bound apolipoprotein involved in lipid transport. ApoM primarily interacts with HDL and regulates its metabolism (3). It is highly expressed in hepatocytes and kidney proximal tubule cells. Recently, ApoM was shown to act as a vasculoprotective constituent of HDL by delivering S1P to the S1P receptor on endothelial cells (4). SNPs of ApoM have been associated with type 2 diabetes (5).

Background References

1. Kwiterovich, P.O. (2000) *Am J Cardiol* 86, 5L-10L.
2. Hussain, M.M. (2000) *Atherosclerosis* 148, 1-15.
3. Xu, N. and Dahlbäck, B. (1999) *J Biol Chem* 274, 31286-90.
4. Christoffersen, C. et al. (2011) *Proc Natl Acad Sci U S A* 108, 9613-8.
5. Zhou, J.W. et al. (2011) *PLoS One* 6, e17324.

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

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