

# ApoM Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1091a

## Product Information

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<b>Application</b>	WB, ICC, E
<b>Primary Accession</b>	<a href="#">O95445</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	10C3G5
<b>Isotype</b>	IgG2a
<b>Calculated MW</b>	21253
<b>Description</b>	ApoM (apolipoprotein M, also designated G3a or NG20), with 188-amino acid protein (about 21kDa), is an apolipoprotein and member of the lipocalin protein family. The Apo-proteins are involved in the specific binding of cellular receptors, the regulation of lipolytic enzymes, and the process of lipid exchange. The encoded protein is secreted through the plasma membrane but remains membrane-bound, where it is involved in lipid transport. The N-terminal region of Apo-M contains hydrophobic residues that may promote association with the phospholipid layer of lipoprotein particles. In vitro, Apo-M is glycosylated when translated in the presence of microsomes, and remains associated with the microsomes after carbonate treatment. Apo-M is expressed in liver and kidney, and is secreted into the bloodstream in HDLs, and also found in triglyceride-rich lipoproteins and LDLs.
<b>Immunogen</b>	Purified recombinant fragment of ApoM expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	55937
<b>Other Names</b>	Apolipoprotein M, Apo-M, ApoM, Protein G3a, APOM, G3A, NG20
<b>Dilution</b>	WB~~1/500 - 1/2000 ICC~~N/A E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	ApoM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	APOM
<b>Synonyms</b>	G3A, NG20
<b>Function</b>	Probably involved in lipid transport. Can bind sphingosine-1- phosphate, myristic acid, palmitic acid and stearic acid, retinol, all- trans-retinoic acid and 9-cis-retinoic acid.
<b>Cellular Location</b>	Secreted. Note=Present in high density lipoprotein (HDL) and to a lesser extent in triglyceride-rich lipoproteins (TGRLP) and low density lipoproteins (LDL)
<b>Tissue Location</b>	Plasma protein. Expressed in liver and kidney.

## References

1. Xu,N. & Dahlback,B.1999. J. Biol. Chem. 274 (44):31286-31290. 2. Christian Wolfrum, Matthew N Poy & Markus Stoffel. 2005. Nat Med. 11(4):418-22. 3. Xu,N., Nilsson-Ehle,P. & Ahren,B. 2004. J. Nutr. Biochem. 15 (10):579-582. 4. Zhang,X.Y. ,et al.2004. Acta Histochem. 106 (2):123-128.

## Images

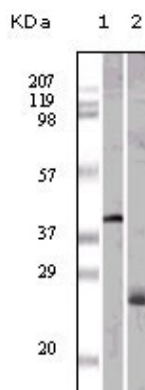


Figure 1: Western blot analysis using ApoM mouse mAb against GST-ApoM recombinant protein (1) and human serum (2).

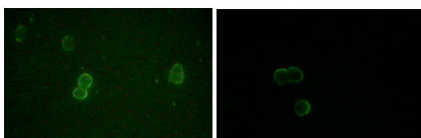


Figure 2: Immunofluorescence analysis of methanol-fixed L-02 (left) and Cos7 (right) cells using ApoM mouse mAb showing cytoplasmic and membrane localization.

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