10320 Camino Santa Fe, Suite G
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ApoO Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1262a

Specification

ApoO Antibody - Product Information

Application	**WB, IHC, ICC, IF**
Primary Accession	Q9BUR5
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**22.2kDa KDa**

Description
ApoO: apolipoprotein O, also known as MYO25, FAM121B, MGC4825. Entrez Protein NP_077027. It is a chrondroitin-sulfate chain containing member of the apolipoprotein family and is an original glycoprotein up-regulated by diabetes in human Heart. Promotes cholesterol efflux from macrophage cells. Detected in HDL, LDL and VLDL. Secreted by a microsomal triglyceride transfer protein (MTTP)-dependent mechanism, probably as a VLDL-associated protein that is subsequently transferred to HDL. May be involved in myocardium-protective mechanisms against lipid accumulation.

Immunogen
Purified recombinant fragment of ApoO expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

ApoO Antibody - Additional Information

Gene ID 79135

Other Names
Apolipoprotein O, Protein FAM121B, APOO, FAM121B

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
ICC~~1:200~~1000
IF~~1:200~1000.

Storage
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.

Precautions
ApoO Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ApoO Antibody - Protein Information

Name APOO

Function
Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Plays a crucial role in crista junction formation and mitochondrial function (PubMed:25764979). Can promote cardiac lipotoxicity by enhancing mitochondrial respiration and fatty acid metabolism in cardiac myoblasts (PubMed:24743151). Promotes cholesterol efflux from macrophage cells. Detected in HDL, LDL and VLDL. Secreted by a microsomal triglyceride transfer protein (MTTP)-dependent mechanism, probably as a VLDL-associated protein that is subsequently transferred to HDL (PubMed:16956892).

Cellular Location
Mitochondrion inner membrane; Single-pass membrane protein. Secreted. Mitochondrion. Golgi apparatus membrane. Endoplasmic reticulum membrane. Note=Exists in three distinct forms: a glycosylated and secreted form, an ER/Golgi-resident form and a non- glycosylated mitochondrial form.

Tissue Location
Expressed in all tissues examined. Up-regulated in diabetic heart.

ApoO Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ApoO Antibody - Images

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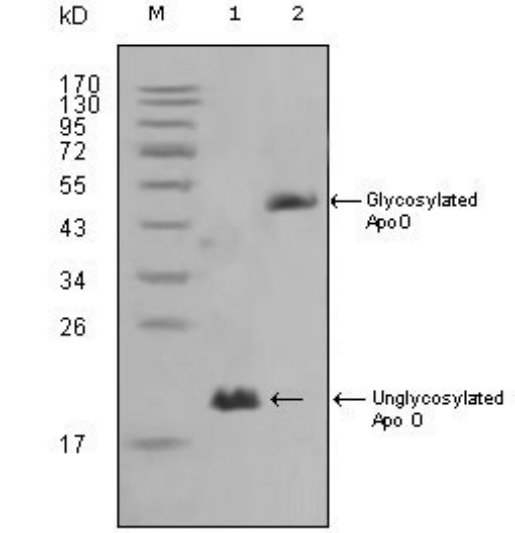

Figure 1: Western blot analysis using ApoO mouse mAb against HepG2 (1) and 3T3L1(2) cell lysate.

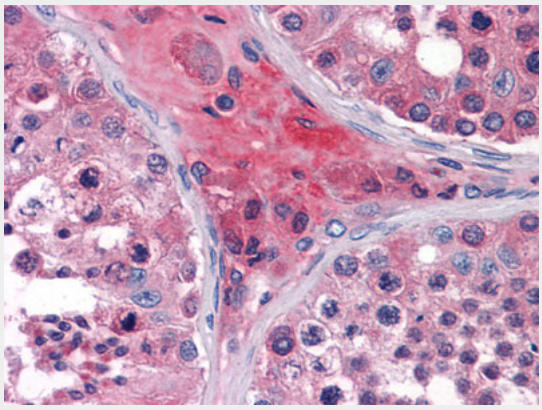

Figure 2: Immunohistochemical analysis of paraffin-embedded human Testis tissues using ApoO mouse mAb

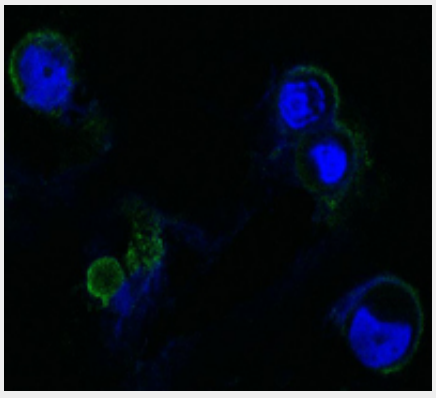

Figure 2: Confocal immunofluorescence analysis of methanol-fixed HEK293 cells trasfected with FGFR4-hIgGFc using FGFR4 mouse mAb(green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

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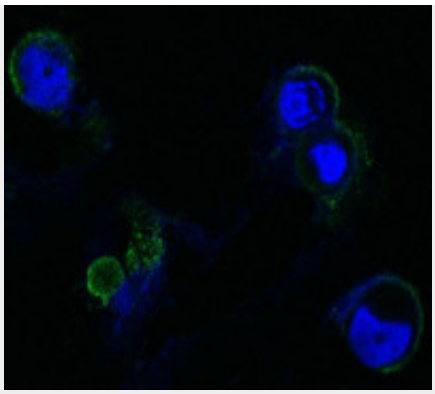

Figure 2: Confocal immunofluorescence analysis of methanol-fixed HEK293 cells trasfected with FGFR4-hIgGFc using anti-FGFR4 monoclonal antioby(green), showing membrane localization. Blue: DRAQ5 fluorescent DNA dye.

ApoO Antibody - References

1. J Biol Chem. 2006 Nov 24;281(47):36289-302. 2. Genome Res. 2003 Oct;13(10):2265-70.