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APOO / Apolipoprotein O Antibody (clone 2F1)

Mouse Monoclonal Antibody
Catalog # ALS13162

Specification

APOO / Apolipoprotein O Antibody (clone 2F1) - Product Information

Application	**WB**
Primary Accession	Q9BUR5
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**22kDa KDa**

APOO / Apolipoprotein O Antibody (clone 2F1) - Additional Information

Gene ID 79135

Other Names
Apolipoprotein O, Protein FAM121B, APOO, FAM121B

Target/Specificity
Human APOO

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
APOO / Apolipoprotein O Antibody (clone 2F1) is for research use only and not for use in diagnostic or therapeutic procedures.

APOO / Apolipoprotein O Antibody (clone 2F1) - 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.

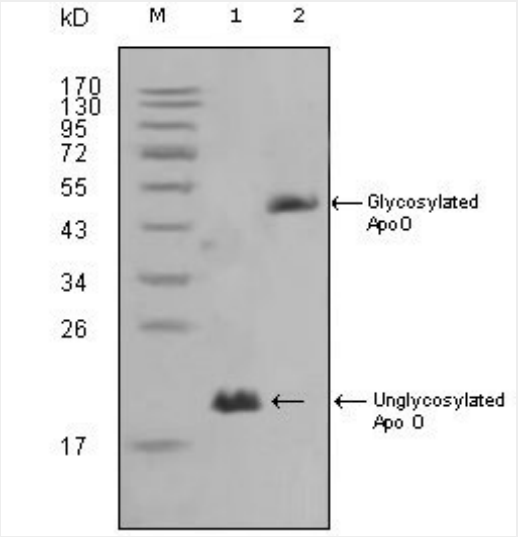
Volume
50 µl

APOO / Apolipoprotein O Antibody (clone 2F1) - 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 / Apolipoprotein O Antibody (clone 2F1) - Images



Western blot using ApoO mouse monoclonal antibody against HepG2 (1) and 3T3L1(2) cell lysate.

APOO / Apolipoprotein O Antibody (clone 2F1) - Background

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.

APOO / Apolipoprotein O Antibody (clone 2F1) - References

Mao Y.M.,et al.Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases.
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Lamant M.,et al.J. Biol. Chem. 281:36289-36302(2006).