

Product Name: KD-Validated Diacylglycerol O-acyltransferase 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01115

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 55.3kDa

Antigen Information

Gene Name	DGAT1 DGAT1; Diacylglycerol O-Acyltransferase 1; ARGP1; DGAT; Acyl-CoA Retinol O-Fatty-Acyltransferase; Diglyceride Acyltransferase; EC 2.3.1.20; ARAT; Acyl Coenzyme A:Cholesterol
Alternative Names	Acyltransferase Related Gene 1; Diacylglycerol O-Acyltransferase (Mouse) Homolog; Acyl-CoA:Diacylglycerol Acyltransferase; Retinol O-Fatty-Acyltransferase; ACAT Related Gene Product 1; ACAT-Related Gene Product 1; EC 2.3.1.76; EC 2.3.1; DIAR7; AGRP1
Gene ID	8694.0
SwissProt ID	O75907
Immunogen	A synthesized peptide derived from human DGAT1

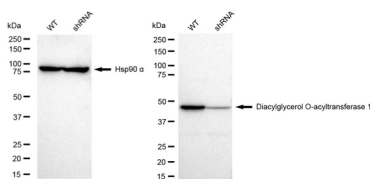
Background

This gene encodes an multipass transmembrane protein that functions as a key metabolic enzyme. The encoded protein catalyzes the conversion of diacylglycerol and fatty acyl CoA to triacylglycerol. This enzyme can also transfer acyl CoA to retinol. Activity of this protein may be associated with obesity and other metabolic diseases. [provided by RefSeq, Jul 2013]

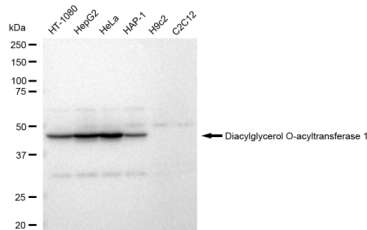
Research Area

Signal Transduction, Cardiovascular, Cancer, Metabolism

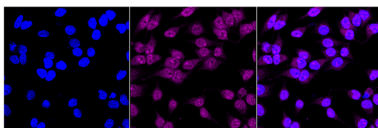
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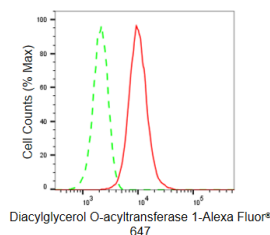
Western blotting analysis using diacylglycerol o-acyltransferase 1 antibody (KVA01115). Diacylglycerol o-acyltransferase 1 expression in wild type (WT) and diacylglycerol o-acyltransferase 1 (DGAT1) shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with diacylglycerol o-acyltransferase 1 antibody (KVA01115, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Diacylglycerol O-acyltransferase 1 antibody (KVA01115). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Diacylglycerol O-acyltransferase 1 antibody (KVA01115, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with diacylglycerol o-acyltransferase 1 antibody (KVA01115, 1:1,000). Nuclei were stained blue with DAPI; Diacylglycerol o-acyltransferase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Diacylglycerol O-acyltransferase 1 expression in HeLa cells using Diacylglycerol O-acyltransferase 1 antibody (KVA01115, 1:2,000). Green, isotype control; red, Diacylglycerol O-acyltransferase 1.