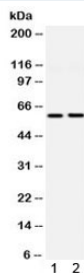


DGAT Antibody / Diacylglycerol acyltransferase (R31838)

Catalog No.	Formulation	Size
R31838	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	O75907
Applications	Western Blot : 0.1-0.5ug/ml
Limitations	This DGAT antibody is available for research use only.



Western blot testing of 1) rat kidney and 2) human HeLa lysate with DGAT antibody. Predicted molecular weight ~55 kDa, commonly observed at 45-55 kDa.

Description

Acyl-CoA: diacylglycerol acyltransferase 1 (DGAT1) is a microsomal enzyme that plays a central role in the metabolism of cellular diacylglycerol lipids and catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol (DAG) and fatty acyl CoA as substrates. DGAT had been considered necessary for adipose tissue formation and essential for survival. There are two isozyms of DGAT encoded by the genes DGAT1 and DGAT2. DGAT1 is a host factor for HCV infection that binds core protein, localizes it to DGAT1-generated lipid droplets, and recruits viral RNA replication complexes for viral assembly. DGAT2-generated lipid droplets formed normally in cells treated with the DGAT1 inhibitor, suggesting that DGAT1 inhibitors may be useful as antiviral therapeutics.

Application Notes

Optimal dilution of the DGAT antibody should be determined by the researcher.

Immunogen

Amino acids RRILEMLFFTQLQVGLIQQWMVPTIQNSMKPFKDMDYSR of human DGAT1 were used as the immunogen for the DGAT antibody.

Storage

After reconstitution, the DGAT antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.