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Dgat2 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13125

Product Information

Application	WB
Primary Accession	Q9DCV3
Other Accession	NM_026384, NP_080660
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43770

Additional Information

Gene ID	67800
Alias Symbol	0610010B06Rik, DGAT-2
Other Names	Diacylglycerol O-acyltransferase 2, 2.3.1.20, Acyl-CoA retinol O-fatty-acyltransferase, ARAT, Retinol O-fatty-acyltransferase, 2.3.1.76, Diglyceride acyltransferase 2, Dgat2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Dgat2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Dgat2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

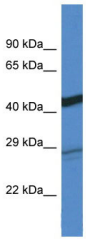
Name	Dgat2 {ECO:0000312|MGI:MGI:1915050}
Function	Essential acyltransferase that catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. Required for synthesis and storage of intracellular triglycerides. Probably plays a central role in cytosolic lipid accumulation. In liver, is primarily responsible for incorporating endogenously synthesized fatty acids into triglycerides. Also functions as an acyl-CoA retinol acyltransferase (ARAT) (By similarity). Also able to use 1-monoalkylglycerol (1-MAkG) as an acyl acceptor for the synthesis of monoalkyl-monoacylglycerol (MAMAG) (By similarity).

Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q96PD7}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q96PD7}. Lipid droplet {ECO:0000250|UniProtKB:Q96PD7}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q96PD7}
Tissue Location	Predominantly expressed in liver. Also expressed in testis.

References

Cases S.,et al.J. Biol. Chem. 276:38870-38876(2001).
Carninci P.,et al.Science 309:1559-1563(2005).
Meegalla R.L.,et al.Biochem. Biophys. Res. Commun. 298:317-323(2002).
Wakimoto K.,et al.Biochem. Biophys. Res. Commun. 310:296-302(2003).
Stone S.J.,et al.J. Biol. Chem. 279:11767-11776(2004).

Images



WB Suggested Anti-Dgat2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.