Product Datasheet

DGAT1 Antibody
NB100-57086

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 10

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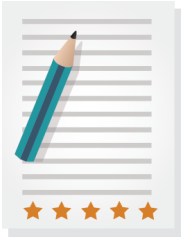
Updated 10/23/2024 v.20.1



NB100-57086

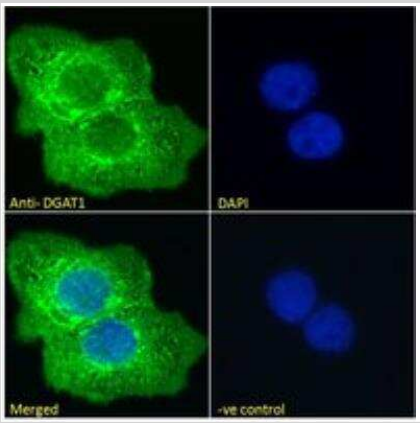
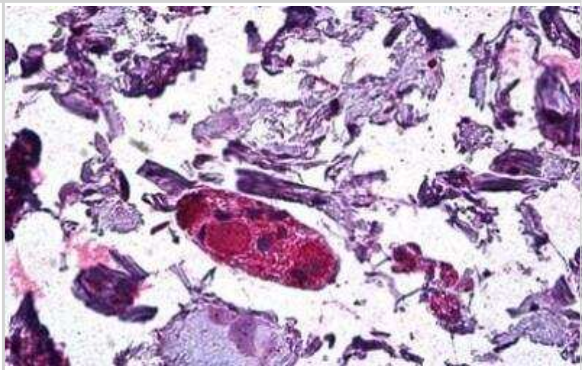
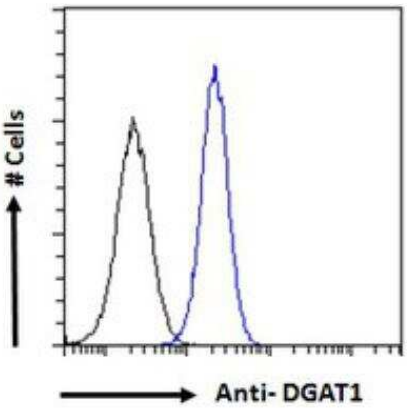
DGAT1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	55.3 kDa

Product Description	
Host	Goat
Gene ID	8694
Gene Symbol	DGAT1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 25714675).
Immunogen	Peptide with sequence C-QNSMKPFKDMDYS corresponding to internal region according to NP_036211.1.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.01 - 0.1 ug/mL, Flow Cytometry 10 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 3.75 ug/mL, Peptide ELISA Detection limit 1:64000
Application Notes	WB: Approx. 55 kDa band observed in human liver lysates (calculated MW of 55.3 kDa band according to NP_036211.1).

Images

Western Blot: DGAT1 Antibody [NB100-57086] - Staining of Mouse Liver lysate (35 ug protein in RIPA buffer). Antibody at 0.03 ug/mL. Detected by chemiluminescence.	
Immunocytochemistry/Immunofluorescence: DGAT1 Antibody [NB100-57086] - Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).	
Immunohistochemistry-Paraffin: DGAT1 Antibody [NB100-57086] - Staining of paraffin embedded Human Colon. Antibody at 3.75 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.	
Flow Cytometry: DGAT1 Antibody [NB100-57086] - Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.	

Publications

Larsen Steen, Vigelso Andreas, Dandanell Sune et al. Simvastatin-Induced Insulin Resistance May Be Linked to Decreased Lipid Uptake and Lipid Synthesis in Human Skeletal Muscle: the LIFESTAT Study. J Diabetes Res. 2018-09-12 [PMID: 30276217]

Melissa L. Erickson, Zachary W. Patinkin, Allison M. Duensing, Dana Dabelea, Leanne M. Redman, Kristen E. Boyle Maternal metabolic health drives mesenchymal stem cell metabolism and infant fat mass at birth JCI Insight 2021-07-08 [PMID: 34061777]

Timothy M. Moore, Zhenqi Zhou, Alexander R. Strumwasser, Whitaker Cohn, Amanda J. Lin, Kevin Cory, Kate Whitney, Theodore Ho, Timothy Ho, Joseph L. Lee, Daniel H. Rucker, Austin N. Hoang, Kevin Widjaja, Aaron D. Abrishami, Sarada Charugundla, Linsey Stiles, Julian P. Whitelegge, Lorraine P. Turcotte, Jonathan Wanagat, Andrea L. Hevener Age□induced mitochondrial DNA point mutations are inadequate to alter metabolic homeostasis in response to nutrient challenge Aging Cell 2020-10-13 [PMID: 33049094]

Chaves AB, Zheng D, Johnson JA et al. Infant Mesenchymal Stem Cell Insulin Action is Associated With Maternal Plasma Free Fatty Acids, Independent of Obesity Status: The Healthy Start Study Diabetes 2022-05-27 [PMID: 35621990]

Bagnato C, Igal RA. Overexpression of diacylglycerol acyltransferase-1 reduces phospholipid synthesis, proliferation, and invasiveness in simian virus 40-transformed human lung fibroblasts. J Biol Chem 2003-12-26 [PMID: 14557275]

Borsting Jordy A, Kraakman MJ, Gardner T et al. Analysis of the liver lipidome reveals insights into the protective effect of exercise on high fat diet induced hepatosteatosis in mice Am. J. Physiol. Endocrinol. Metab. 2015-02-24 [PMID: 25714675] (WB, Mouse)

Seyer A, Cantiello M, Bertrand-Michel J et al. Lipidomic and Spatio-Temporal Imaging of Fat by Mass Spectrometry in Mice Duodenum during Lipid Digestion PLoS One 2013-01-01 [PMID: 23560035] (WB, Mouse)

van Diepen JA, Stienstra R, Vroegrijk IO et al. Caspase-1 deficiency in mice reduces intestinal triglyceride absorption and hepatic triglyceride secretion. J Lipid Res 2013-02-01 [PMID: 23160218]

Amati F, Dube JJ, Alvarez-Carnero E et al. Skeletal muscle triglycerides, diacylglycerols, and ceramides in insulin resistance: another paradox in endurance-trained athletes? Diabetes 2011-10-01 [PMID: 21873552] (WB, Human)

Alsted TJ, Nybo L, Schweiger M et al. Adipose triglyceride lipase in human skeletal muscle is upregulated by exercise training. Am J Physiol Endocrinol Metab;296(3):E445-453. 2009-01-01 [PMID: 19106247]

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Products Related to NB100-57086

NB820-59212	Human Duodenum Whole Tissue Lysate (Adult Whole Normal)
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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