

Product Datasheet

DGAT2 Antibody NBP1-71700

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-71700

DGAT2 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Product Description	
Host	Rabbit
Gene ID	84649
Gene Symbol	DGAT2
Species	Human, Mouse, Yeast
Reactivity Notes	Human, yeast and mouse. Immunogen has 100% identity to rat, bovine and porcine, and 86% identity to Xenopus.
Immunogen	A synthetic peptide made to an internal region of the human DGAT2 protein (within residues 100-200). [Swiss-Prot Q96PD7]
Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1 ug/ml
Application Notes	This DGAT2 antibody is useful for Western blot, where a band is seen ~43 kDa.

Publications

McFie PJ, Chumala P, Katselis GS, Stone SJ DGAT2 stability is increased in response to DGAT1 inhibition in gene edited HepG2 cells *Biochimica et biophysica acta. Molecular and cell biology of lipids* 2021-09-01 [PMID: 34116261]

Lee W, Koo HR, Choi YJ et al. Z-ligustilide and n-Butylideneephthalide Isolated from the Aerial Parts of *Angelica tenuissima* Inhibit Lipid Accumulation In Vitro and In Vivo *Planta Med.* 2019-05-28 [PMID: 31137047]

Choi YJ, Lee CH, Lee KY et al. Increased Hepatic Fatty Acid Uptake and Esterification Contribute to Tetracycline-Induced Steatosis in Mice *Toxicol. Sci.* 2015-03-04 [PMID: 25745068] (WB, Human, Mouse)

Details:

DGAT2 antibody used for WB on lysates of liver tissues from mice administered or not with Tetracycline (FIG. 2A), whole cell lysates of HepG2 cells treated or not with Tetracycline, U0126 or PD98059 (FIG. 3C, 5A/B, Supplementary Figure 2B). Antibody also used for WB on lysates of HepG2 cells transfected with mock or HA tagged CA-MEK plasmid as well as on HepG2 cells subjected (FIG. 5A/B) or not to si-RNA mediated double knockdown of DGAT1/2 (FIG. 6A).

Zeng T, Zhang CL, Song FY et al. CMZ Reversed Chronic Ethanol-Induced Disturbance of PPAR- α Possibly by Suppressing Oxidative Stress and PGC-1 α Acetylation, and Activating the MAPK and GSK3 β Pathway *PLoS ONE.* 2014-06-04 [PMID: 24892905] (WB, Mouse)

Details:

DGAT2 antibody used for WB in specific pathogen-free/SPF male Kun-Ming mice treated or not with chronic ethanol and/or chlormethiazole (CMZ). DGAT2 was studied as rate-limiting enzyme of G synthesis and its levels were found increased in ethanol and CMZ/ethanol group mice liver. (Figure 9A)

Xu N, Zhang SO, Cole RA, McKinney SA, Guo F, Haas JT, Bobba S, Farese RV Jr, Mak HY. The FATP1-DGAT2 complex facilitates lipid droplet expansion at the ER-lipid droplet interface *J Cell Biol* 2012-08-27 [PMID: 22927462] (WB, Yeast)



Procedures

Western Blot protocolspecific for DGAT2 antibody (NBP1-71700)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

*Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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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