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EB11003 - Goat Anti-DGAT1 (aa67-79) Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: DGAT1, diacylglycerol O-acyltransferase 1, ARGP1, DGAT, ACAT related gene product 1, ACAT-related gene product 1, acyl coenzyme A:cholesterol acyltransferase related gene 1, diacylglycerol O-acyltransferase homolog 1, diglyceride acyltransferase
Official Symbol: DGAT1
Accession Number(s): NP_036211.2
Human GeneID(s): 8694

Immunogen

Peptide with sequence RCHRLQDSLFSSD, from the internal region of the protein sequence according to NP_036211.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

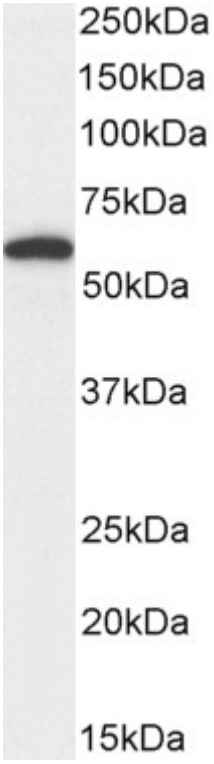
Peptide ELISA: antibody detection limit dilution 1:128000.
Western blot: Approx. 55-58kDa band observed in lysates of cell line NIH3T3, and approx. 58kDa in Mouse Duodenum and Rat Kidney lysates (calculated MW of 56.8kDa according to Mouse NP_034176.1 and 57.1kDa according to Rat NP_445889.2). Recommended concentration: 0.3-1µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in A431 and NIH3T3 cells. Recommended concentration: 10µg/ml.

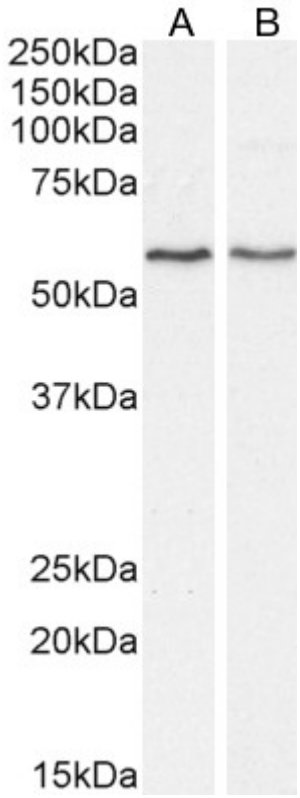
Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

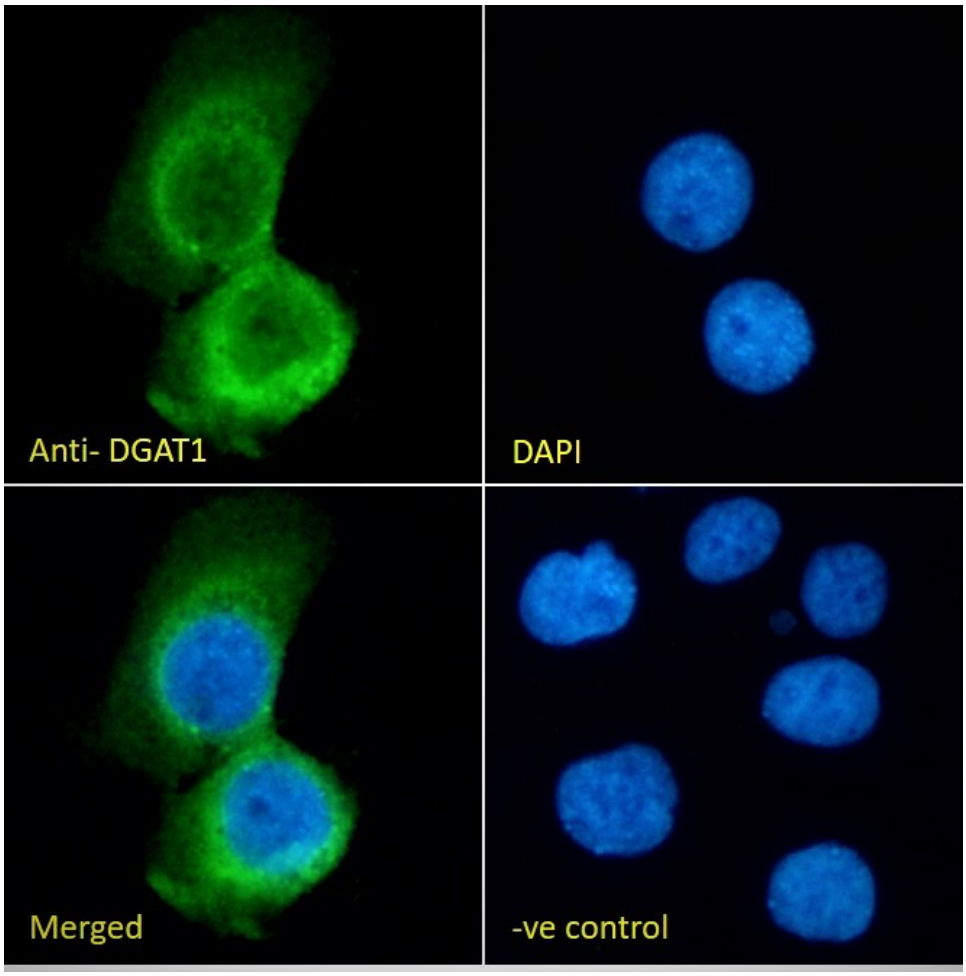
Tested: Human, Mouse, Rat
Expected from sequence similarity: Human, Mouse, Rat, Cow



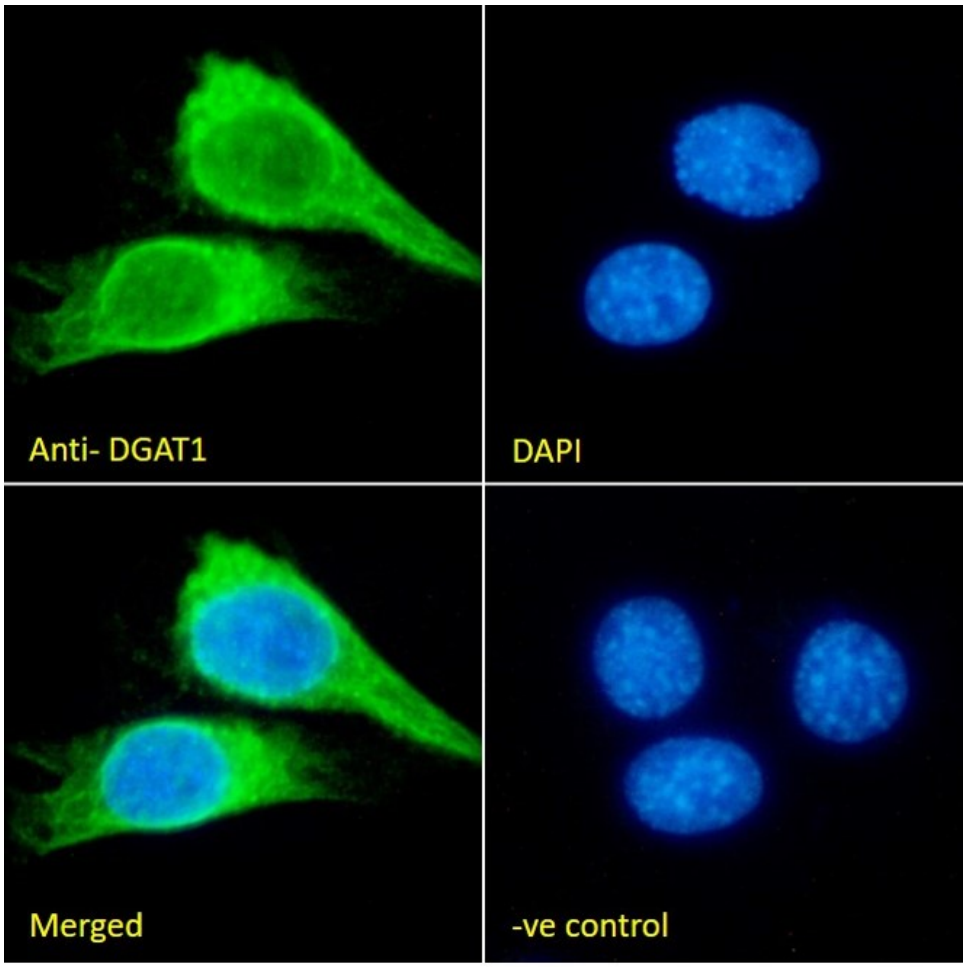
EB11003 (0.5µg/ml) staining of NIH3T3 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



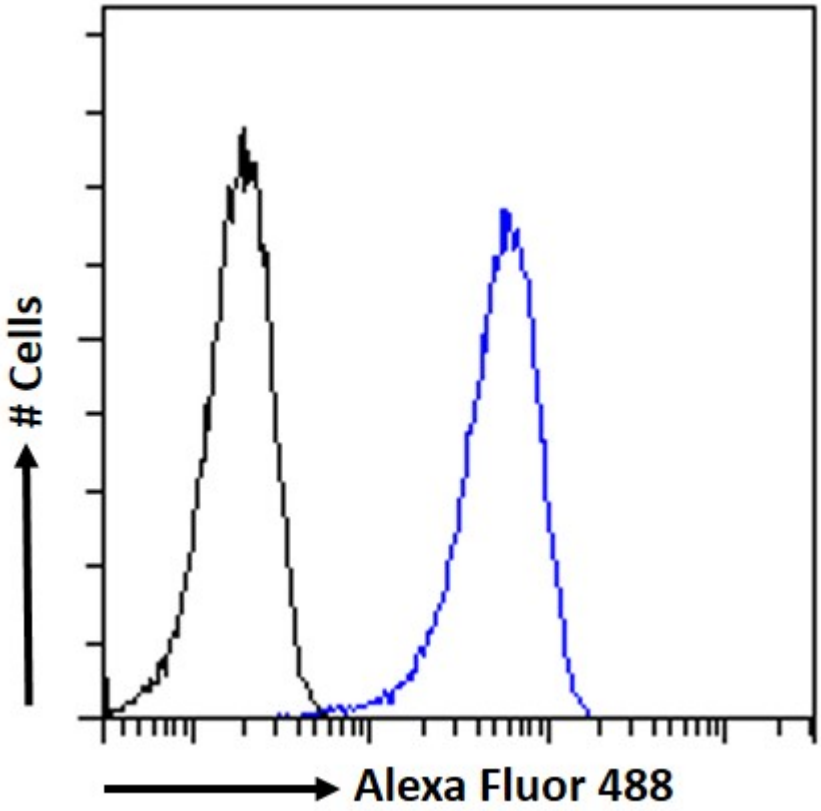
EB11003 (1µg/ml) staining of Mouse Duodenum (A) and (0.5ug/ml) Rat Kidney (B) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB11003 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB11003 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB11003 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.