



## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB07575 - Goat Anti-DGAT1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** DGAT1, diacylglycerol O-acyltransferase homolog 1 (mouse), ARGP1, DGAT, ACAT related gene product 1, acyl coenzyme A:cholesterol acyltransferase related gene 1, diacylglycerol O-acyltransferase 1, diglyceride acyltransferase

**Official Symbol:** DGAT1

**Accession Number(s):** NP\_036211.2

**Human GeneID(s):** [8694](#)

**Non-Human GeneID(s):** 13350 (mouse), 84497 (rat)

### Immunogen

Peptide with sequence C-QNSMKPFKMDYS, 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 1:64000.

**Western blot:** Approx 55kDa band observed in Mouse Liver lysates (calculated MW of 56.8kDa according to NP\_034176.1). Recommended concentration: 0.01-0.1.0µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** Paraffin embedded Human Colon. Recommended concentration: 3.75µg/ml.

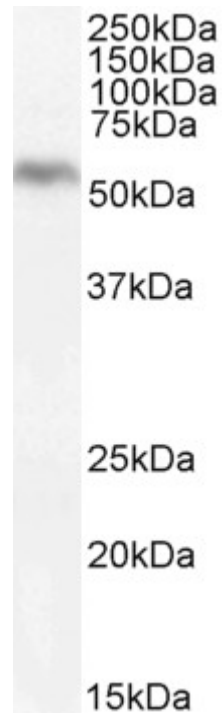
**Immunofluorescence:** Strong expression of the protein seen in the endoplasmic reticulum and cytoplasm of A431 cells. Recommended concentration: 10µg/ml.

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

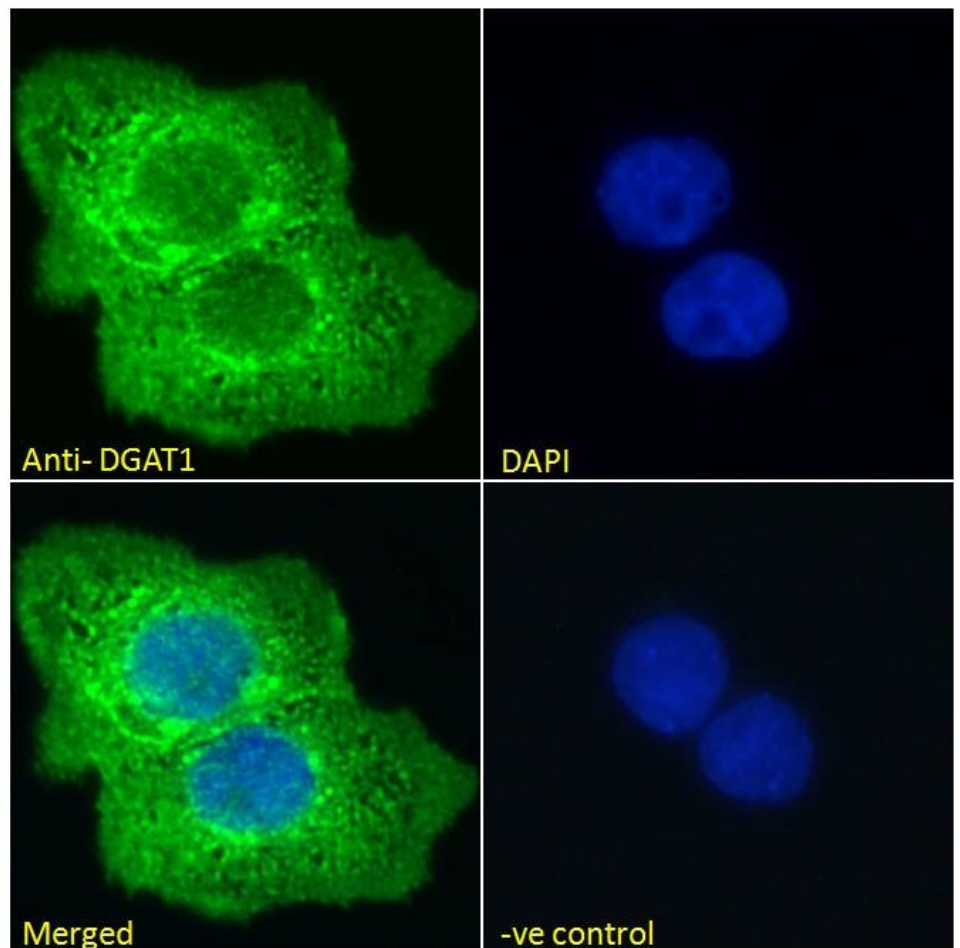
### Species Reactivity

**Tested:** Human, Mouse

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow

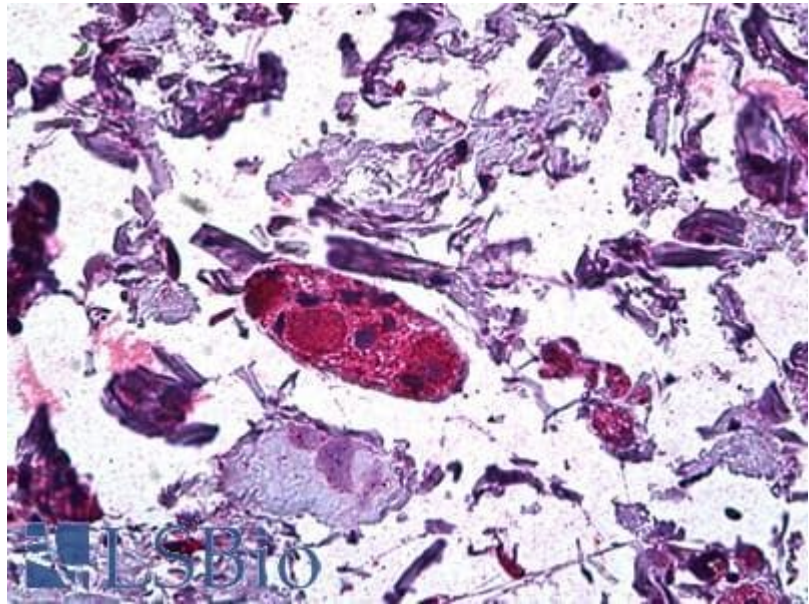


EB07575 (0.03 $\mu$ g/ml) staining of Mouse Liver lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.

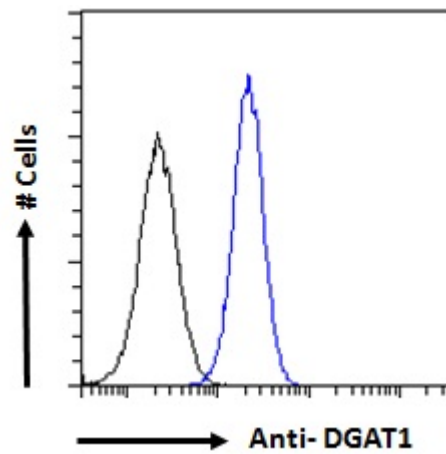


EB07575 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml), showing endoplasmic reticulum and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control:

Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB07575 (3.75 $\mu$ g/ml) staining of paraffin embedded Human Colon. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB07575 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.