# DGAT2 Rabbit mAb

**Catalog No.: A29558**

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## Basic Information

**Observed MW**
40 kDa

**Calculated MW**
44 kDa

**Category**
Monoclonal Antibodies

**Applications**
WB, IHC-P, ELISA

**Cross Reactivity**
Mouse, Rat

**Clone No.**
ARC84548

## Background

Enables 2-acylglycerol O-acyltransferase activity; diacylglycerol O-acyltransferase activity; and protein homodimerization activity. Involved in several processes, including cellular response to oleic acid; cholesterol homeostasis; and diacylglycerol biosynthetic process. Acts upstream of or within triglyceride biosynthetic process. Located in endoplasmic reticulum; membrane; and perinuclear region of cytoplasm. Is active in endoplasmic reticulum membrane. Colocalizes with lipid droplet and mitochondrion. Is expressed in several structures, including alimentary system; genitourinary system; integumental system; nervous system; and sensory organ. Human ortholog(s) of this gene implicated in metabolic dysfunction-associated steatotic liver disease. Orthologous to human DGAT2 (diacylglycerol O-acyltransferase 2).

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:2000 - 1:5000 |
| **IHC-P** | 1:50 - 1:200 |

**ELISA**
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

## Immunogen Information

**Gene ID**
67800

**Swiss-Prot**
Q9DCV3

**Immunogen**
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

**Synonyms**
ARAT; DGAT-2; 0610010B06Rik

**Contact**

400-999-6126
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## Product Information

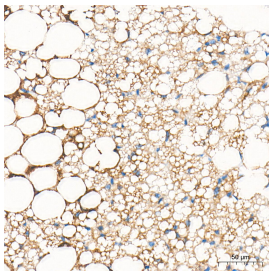
**Source**
Rabbit

**Isotype**
IgG

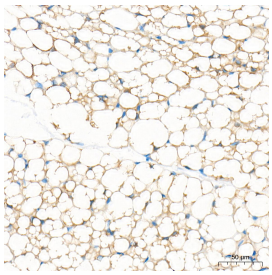
**Purity**
Affinity purification

**Storage**
Store at -20℃

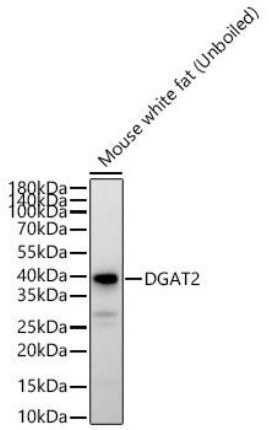
## Validation Data



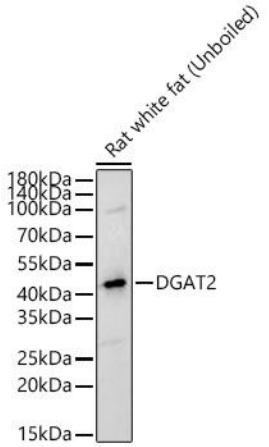
Immunohistochemistry analysis of paraffin-embedded Mouse fat tissue using DGAT2 Rabbit mAb (A29558) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat fat tissue using DGAT2 Rabbit mAb (A29558) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.




Western blot analysis of lysates from Mouse white fat using DGAT2 Rabbit mAb (A29558) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60 s.




Western blot analysis of lysates from Rat white fat using DGAT2 Rabbit mAb (A29558) at 1:5000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.