

For Research Use Only

# MGAT3 Polyclonal antibody

Catalog Number: 17869-1-AP

Featured Product

2 Publications



## Basic Information

**Catalog Number:**

17869-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG12352

**GenBank Accession Number:**

BC075026

**GeneID (NCBI):**

4248

**UNIPROT ID:**

Q09327

**Full Name:**

mannosyl (beta-1,4-)-glycoprotein

beta-1,4-N-

acetylglucosaminyltransferase

**Calculated MW:**

533 aa, 61 kDa

**Observed MW:**

61 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

WB, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB : COLO 320 cells, Caco-2 cells

IHC : human colon cancer tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

In the small intestine, ~75% of triacylglycerol (TG) synthesis occurs via the monoacylglycerol acyltransferase (MGAT) pathway. Three MGAT isoforms (MGAT1, MGAT2 and MGAT3) have been identified based on their extensive homology to DGAT2. MGAT1 is primarily expressed in the adipose tissue, stomach and kidney but not in the small intestine. MGAT2 and MGAT3 are most highly expressed in the small intestine, suggesting that these two MGAT forms are responsible for the resynthesis of dietary TG that is packaged into chylomicrons.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jun Li	32483464	Theranostics	WB,IHC
Yue Wang	38325771	Neuropharmacology	

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

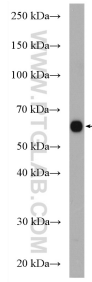
T: 4006900926

E: Proteintech-CN@ptglab.com

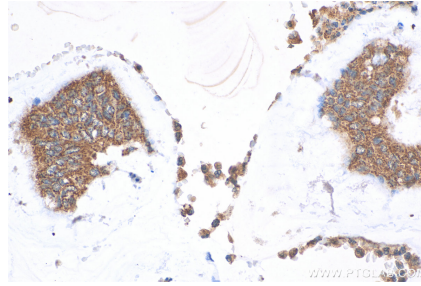
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

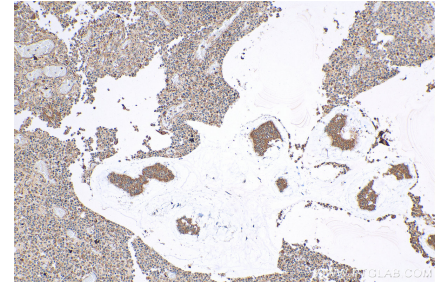
## Selected Validation Data



COLO 320 cells were subjected to SDS PAGE followed by western blot with 17869-1-AP (MGAT3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17869-1-AP (MGAT3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 17869-1-AP (MGAT3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).