

For Research Use Only

# MGAT3 Polyclonal antibody

Catalog Number: 17869-1-AP

Featured Product

5 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:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

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     |
| Zengqi Tan  | 39267774  | Theranostics | IHC         |
| Yuko Tokoro | 38844136  | J Biol Chem  | WB          |

## 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:

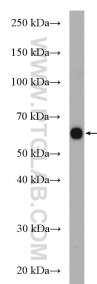
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

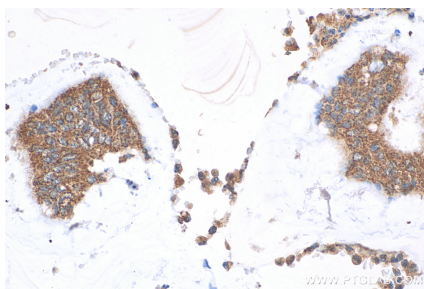
W: [ptgcn.com](http://ptgcn.com)

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

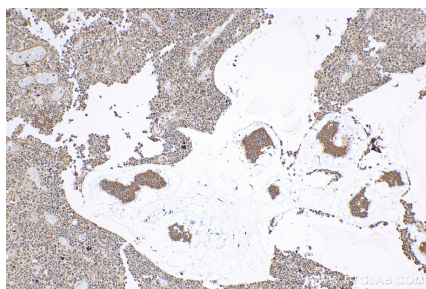
## Selected Validation Data



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).