

For Research Use Only

# AGPAT2 Polyclonal antibody

Catalog Number: 31483-1-AP



## Basic Information

### Catalog Number:

31483-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG34761

### GenBank Accession Number:

BC019292

### GeneID (NCBI):

10555

### UNIPROT ID:

O15120

### Full Name:

1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)

### Calculated MW:

31 kDa

### Observed MW:

27 kDa

### Purification Method:

Antigen affinity Purification

### Recommended Dilutions:

WB 1:500-1:2000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

Human

### Positive Controls:

WB: LO2 cells, THP-1 cells, human adipose tissue

## Background Information

1-acyl-sn-glycerol-3-phosphate acyltransferase beta (AGPAT2) belongs to a family of enzymes catalyzing the sn-2 acylation of the glycerol-3-phosphate backbone. AGPAT2 is highly expressed in adipose tissues, liver, and skeletal muscle. AGPAT2 is the only AGPAT isoform whose loss-of-function mutations cause a severe form of human congenital generalized lipodystrophy (PMID: 34824276). Human and mouse AGPAT2 have a calculated molecular mass of 31 kDa, and an alternatively spliced form of AGPAT2 mRNA, encoding a protein of 246 rather than 278 amino acids, is also found in human (PMID: 19336658). Western detected AGPAT2 at an apparent molecular mass of 27 kDa.

## 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

\*\*\* 20ul sizes contain 0.1% BSA

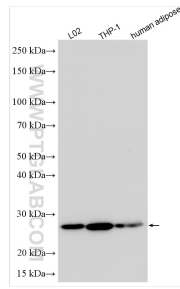
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31483-1-AP (AGPAT2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.