AGPAT2 (D8W9B) Rabbit mAb

**Product Usage Information**

**Application**
- Western Blotting
- Immunoprecipitation

**Reactivity**
- H

**Sensitivity**
- Endogenous

**MW (kDa)**
- 27

**Source/Igotype**
- Rabbit IgG

**UniProt ID**
- O15120

**Entrez-Gene Id**
- 10555

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

AGPAT2 (D8W9B) Rabbit mAb recognizes endogenous levels of total AGPAT2 protein.

**Species Reactivity:**
- Human

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly235 of human AGPAT2 protein.

**Background**

The 1-acylglycerol-3-phosphate-O-acyltransferase 2 enzyme (AGPAT2) catalyzes the acylation of lysophosphatidic acid (LPA) into phosphatidic acid (PA), which is a precursor for the synthesis of triacylglycerol and phospholipid (1,2). AGPAT2 is highly expressed in adipose tissues, liver, and skeletal muscle (3). The induced knockdown of AGPAT2 expression results in decreased expression of adipogenic proteins and delayed expression of adipogenic marker proteins, suggesting that AGPAT2 plays an important role in adipocyte growth and differentiation (4). Mutations in the corresponding AGPAT2 gene cause autosomal recessive congenital generalized lipodystrophy type 1 (CGL1), also described as Berardinelli-Seip syndrome. Patients with CGL1 are born without detectable white adipose tissue and tend to develop severe insulin resistance, hypertriglyceridemia, and type 2 diabetes during childhood (5,6).


**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**APPLICATIONS KEY**
- WB: Western Blotting
- IP: Immunoprecipitation

**CROSS-REACTIVITY KEY**
- H: human
- M: mouse
- R: rat
- Hm: hamster
- Mc: monkey
- Vr: virus
- M: mink
- C: chicken
- Dm: D. melanogaster
- X: Xenopus
- Z: zebrafish
- B: bovine
- Dg: dog
- Pg: pig
- Sc: S. cerevisiae
- Ce: C. elegans
- Hr: horse
- D. melanogaster
- All: species tested

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