

Datasheet for ABIN2782960
anti-AGPAT5 antibody (N-Term)



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1 Image

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Overview

Quantity:	100 µL
Target:	AGPAT5
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Cow, Pig, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AGPAT5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human AGPAT5
Sequence:	RLLSAFLPAR FYQALDDRLY CVYQSMVLFF FENYTG VQIL LYGDLPKNKE
Predicted Reactivity:	Cow: 86%, Human: 100%, Pig: 86%, Rat: 79%, Yeast: 77%
Characteristics:	This is a rabbit polyclonal antibody against AGPAT5. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	AGPAT5
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Target Details

Alternative Name: [AGPAT5 \(AGPAT5 Products\)](#)

Background: Mitochondrial creatine kinase (MtCK) is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Sarcomeric mitochondrial creatine kinase has 80 % homology with the coding exons of ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus may be essential for the coordinated activation of these genes during mitochondrial biogenesis. Three transcript variants encoding the same protein have been found for this gene. This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis.

Alias Symbols: 1-AGPAT5, LPAAT-e, LPAAT-epsilon, LPAATE, 1AGPAT5

Protein Interaction Partner: UBQLN1, UBC, ELAVL1, SUMO1,

Protein Size: 364

Molecular Weight: 42 kDa

Gene ID: 55326

NCBI Accession: [NM_018361](#), [NP_060831](#)

UniProt: [Q9NUQ2](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 364 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Agarwal, Barnes, Garg: "Functional characterization of human 1-acylglycerol-3-phosphate acyltransferase isoform 8: cloning, tissue distribution, gene structure, and enzymatic activity." in: Archives of biochemistry and biophysics , Vol. 449, Issue 1-2, pp. 64-76, (2006) (PubMed).
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Images



Western Blotting

Image 1. WB Suggested Anti-AGPAT5 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: Human Muscle