

Rabbit GPAT1 Polyclonal Antibody | anti-GPAM antibody

GPAT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA39300	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

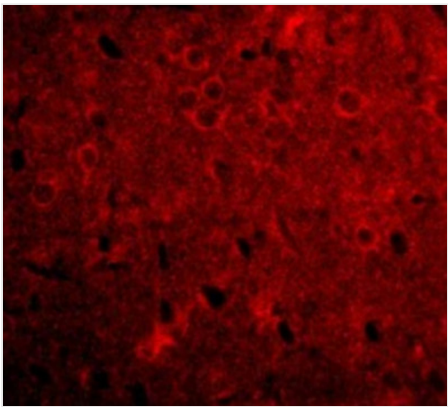
PRODUCT SYNONYMS

GPAT1; Polyclonal Antibody; GPAT1 Antibody; GPAT; KIAA1560; Glycerol-3-phosphate acyltransferase 1; mitochondrial; GPAT-1; glycerol-3-phosphate acyltransferase; anti-GPAM antibody

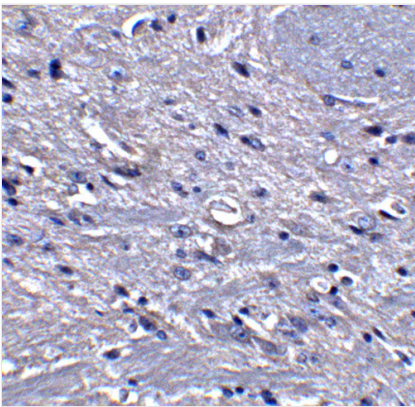
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	At least four isoforms of GPAT1 are known to exist; this antibody will detect only the two largest isoforms.
Purity/Purification	GPAT1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; GPAT1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	828
Applicable Applications for anti-GPAM antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	GPAT1 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of the human GPAT1. The immunogen is located within amino acids 730 - 780 of GPAT1.
Homology	Predicted species reactivity based on immunogen sequence: Pig: (100%), Bovine: (93%)
Preparation and Storage	GPAT1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

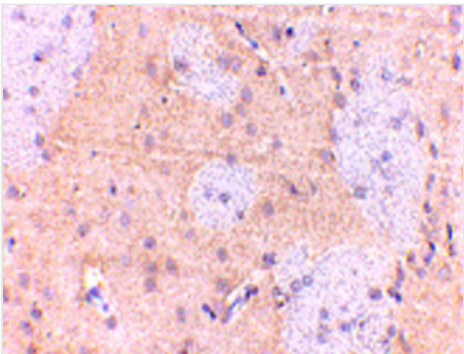
IMAGES



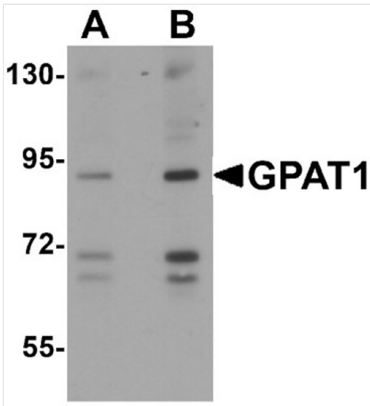
IF (Immunofluorescence)
Immunofluorescence of GPAT1 in Rat Brain tissue with GPAT1 antibody at 20 μ g/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of GPAT1 in mouse brain tissue with GPAT1 antibody at 5 μ g/mL.



IHC (Immunohistochemistry)
Immunohistochemistry of GPAT1 in rat brain with GPAT1 antibody at 2.5 μ g/mL.



WB (Western Blot)
Western blot analysis of GPAT1 in rat brain tissue lysate with GPAT1 antibody at (A) 1 and (B) 2 μ g/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-GPAM antibody	GPAT1 Antibody: Glycerol-3-phosphate acyltransferase 1 (GPAT1), one of four known GPAT isoforms, is located on the mitochondrial outer membrane, allowing reciprocal regulation with carnitine palmitoyltransferase-1. It is thought to be critical for the development of hepatic steatosis; steatosis triggered by GPAT1 overexpression leads to hepatic and possibly peripheral insulin resistance. GPAT1 is transcriptionally upregulated by insulin and sterol regulatory element binding protein (SREBP-1) and downregulated by AMP-activated protein kinase. Mice deficient in GPAT1 exhibit decreased triacylglycerol (TAG) in cardiomyocytes even in high-fat diets, suggesting that GPAT1 contributes significantly to TAG accumulation in heart tissue during lipogenic or high fat diets. At least two isoforms of GPAT1 are known to exist.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	190358539
NCBI GeneID	57678
NCBI Accession #	NP_065969
NCBI GenBank Nucleotide #	NM_020918.5
UniProt Accession #	Q9HCL2; Q5VW51; Q86TA3
Molecular Weight	Predicted: 87, 91 kDa Observed: 92 kDa
NCBI Official Full Name	glycerol-3-phosphate acyltransferase 1, mitochondrial

NCBI Official Synonym Full Names	glycerol-3-phosphate acyltransferase, mitochondrial
NCBI Official Symbol	GPAM
NCBI Official Synonym Symbols	GPAT; GPAT1
NCBI Protein Information	glycerol-3-phosphate acyltransferase 1, mitochondrial; GPAT-1; glycerol 3-phosphate acyltransferase, mitochondrial
UniProt Protein Name	Glycerol-3-phosphate acyltransferase 1, mitochondrial
UniProt Gene Name	GPAM
UniProt Synonym Gene Names	GPAT1; KIAA1560; GPAT-1
UniProt Entry Name	GPAT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gpat1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/39300>