

Datasheet for ABIN499910
anti-GPAM antibody (C-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	0.1 mg
Target:	GPAM
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPAM antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	GPAT1 antibody was raised against a 15 amino acid peptide near the carboxy terminus of the human GPAT1.
Isotype:	IgG
Specificity:	This antibody reacts to GPAT1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	GPAM
Alternative Name:	GPAM / GPAT1 (GPAM Products)

Target Details

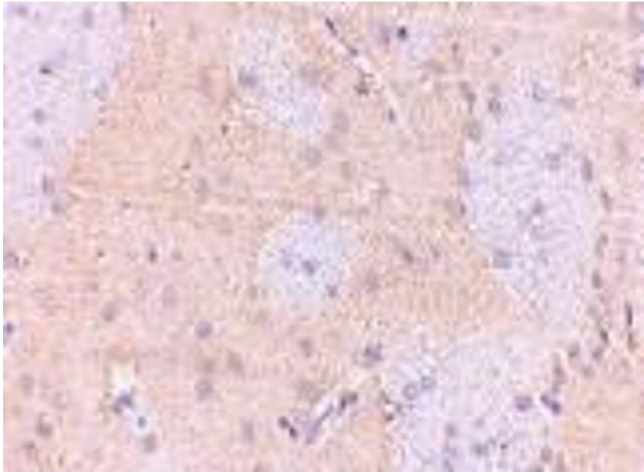
Background:	Glycerol-3-phosphate acyltransferase 1 (GPAT1), one of four known GPAT isoforms, is located on the mitochondrial outer membrane, allowing reciprocal regulation with carnitine palmitoyltransferase-1. It is thought to be critical for the development of hepatic steatosis, steatosis triggered 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.Synonyms: Glycerol-3-phosphate acyltransferase 1, KIAA1560
Gene ID:	57678
NCBI Accession:	NP_065969
UniProt:	Q9HCL2
Pathways:	Activated T Cell Proliferation

Application Details

Application Notes:	ELISA. Western Blot: 1 - 2 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

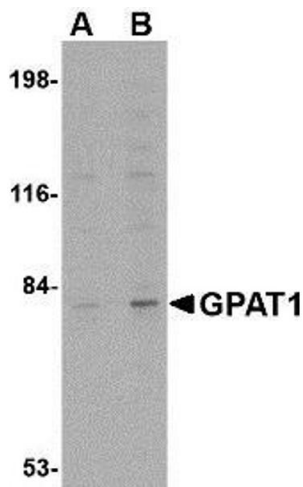
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of GPAT1 in rat brain with GPAT1 antibody at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of GPAT1 in rat brain tissue lysate with AP30375PU-N GPAT1 antibody at (A) 1 and (B) 2 µg/ml.