

GPAM Rabbit pAb

Catalog # AP96907

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9HCL2
Other Accession	Q9HCL2
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93795
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPAM
Epitope Specificity	611-710/828
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GPAT/DAPAT family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate, an essential step in glycerolipid biosynthesis.

Additional Information

Gene ID	57678
Other Names	GPAT; GPAT1; GPAT-1; P90; GPAT1_HUMAN; GPAM; 2.3.1.15; KIAA1560; GPAT1_MOUSE; GPAT1_RAT; glycerol-3-phosphate acyltransferase, mitochondrial; glycerol-3-phosphate acyltransferase 1, mitochondrial
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GPAM (HGNC:24865)
Function	Mitochondrial membrane protein that catalyzes the essential first step of biosynthesis of glycerolipids such as triglycerides, phosphatidic acids and lysophosphatidic acids (PubMed: 18238778 , PubMed: 19075029 , PubMed: 36522428). Esterifies acyl-group from acyl- coenzyme A (acyl-CoA) to

the sn-1 position of glycerol-3-phosphate, to produce lysophosphatidic acid (PubMed:[18238778](#)). Has a narrow hydrophobic binding cleft that selects for a linear acyl chain (PubMed:[36522428](#)). Catalytic activity is higher for substrates with a 16-carbon acyl chain (PubMed:[36522428](#)).

Cellular Location

Mitochondrion outer membrane; Peripheral membrane protein.

Note=Associated with the mitochondrion outer membrane of hepatic cells via a patch of basic residues

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.