

**GPAM Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10150c**

**Specification**

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**GPAM Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">O9HCL2</a>
Other Accession	<a href="#">NP_065969.3</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	93795
Antigen Region	426-455

**GPAM Antibody (Center) - Additional Information**

**Gene ID** 57678

**Other Names**

Glycerol-3-phosphate acyltransferase 1, mitochondrial, GPAT-1, GPAM, GPAT1, KIAA1560

**Target/Specificity**

This GPAM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 426-455 amino acids from the Central region of human GPAM.

**Dilution**

WB~~1:1000

FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GPAM Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**GPAM Antibody (Center) - Protein Information**

**Name** GPAM ([HGNC:24865](#))

**Synonyms** GPAT1, KIAA1560

**Function** Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate, an essential step in glycerolipids biosynthesis such as triglycerides, phosphatidic acids and lysophosphatidic acids.

**Cellular Location**

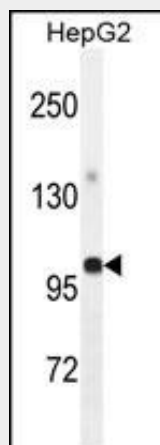
Mitochondrion outer membrane {ECO:0000250|UniProtKB:P97564}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P97564}

**GPAM Antibody (Center) - Protocols**

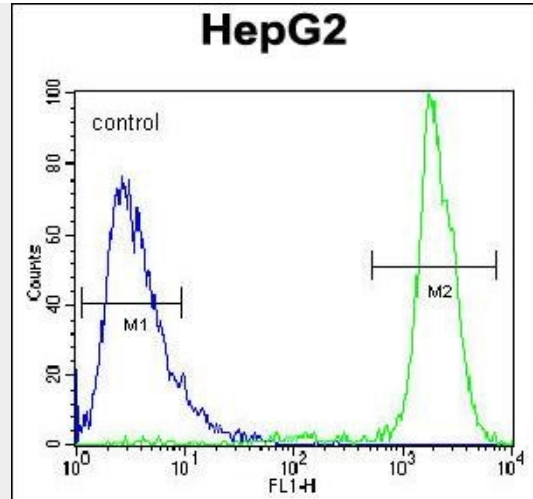
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GPAM Antibody (Center) - Images**



GPAM Antibody (Center) (Cat. #AP10150c) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the GPAM antibody detected the GPAM protein (arrow).



GPAM Antibody (Center) (Cat. #AP10150c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### GPAM Antibody (Center) - Background

Glycerol-3-phosphate acyltransferase (GPAT; EC 2.3.1.15), which catalyzes the initial and committing step in glycerolipid biosynthesis, is predicted to play a pivotal role in the regulation of cellular triacylglycerol and phospholipid levels. Two mammalian forms of GPAT have been identified on the basis of localization to either the endoplasmic reticulum or mitochondria.[supplied by OMIM].

### GPAM Antibody (Center) - References

- Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)
- Reiling, E., et al. Eur. J. Hum. Genet. 17(8):1056-1062(2009)
- Lu, Y., et al. J. Lipid Res. 49(12):2582-2589(2008)
- Chen, Y.Q., et al. J. Biol. Chem. 283(15):10048-10057(2008)
- Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)