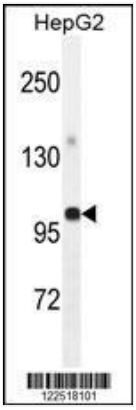
# GPAM Antibody – Rabbit Polyclonal

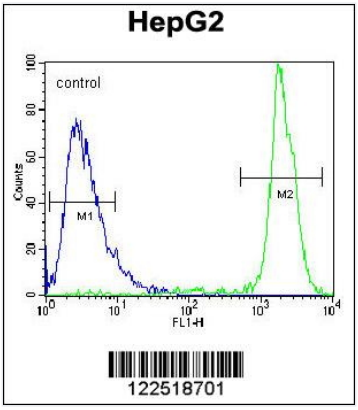
## PRODUCT OVERVIEW

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| **Product Name** | GPAM, Polyclonal Antibody |
| **Full Product Name** | GPAM, ID (GPAM, GPAT1, KIAA1560, Glycerol-3-phosphate acyltransferase 1, mitochondrial) (PE) |
| **Product Gene Name** | anti-GPAM antibody |
| **Product Synonym Names** | GPAM; GPAT1; KIAA1560; Glycerol-3-phosphate acyltransferase 1, mitochondrial |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 93,795 Da |
| **OMIM** | 602395 |
| **3D Structure** | ModBase 3D Structure for Q9HCL2 |
| **Immunogen** | GPAM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 433-463 amino acids from the Central region of human GPAM. |
| **Conjugate** | PE |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-GPAM antibody** | Antibodies; Enzymes; Acyltransferase |
| **Applications Tested/Suitable for anti-GPAM antibody** | Flow Cytometry (FC/FACS), FLISA, Western Blot (WB) |
| **Application Notes for anti-GPAM antibody** | FC/FACS: 1:10-50<br>FLISA: 1:1,000<br>WB: 1:100-500<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-GPAM antibody** | 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]. |
| **Product References and Citations for anti-GPAM antibody** | 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). |

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| **Other Notes** | Small volumes of anti-GPAM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for GPAM purchase** | MBS6303435 is an antibody targeting GPAM. Also known as GPAM, ID (GPAM, GPAT1, KIAA1560, Glycerol-3-phosphate acyltransferase 1, mitochondrial) (PE). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-GPAM antibody**
GPAM Antibody (Center) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the GPAM antibody detected the GPAM protein (arrow).




**Flow Cytometry (FC/FACS) of anti-GPAM antibody**
GPAM Antibody (Center) 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.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPAM. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 190358539 |
| **NCBI GeneID** | 57678 |
| **NCBI Accession #** | NP_065969.3 |
| **UniProt Primary Accession #** | Q9HCL2 |
| **UniProt Secondary Accession #** | Q5VW51; Q86TA3 |
| **UniProt Related Accession #** | Q9HCL2 |
| **GenBank Nucleotide #** | NM_020918.5 |
| **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 |
| **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 |
| **NCBI Protein Information** | glycerol-3-phosphate acyltransferase 1, mitochondrial |
| **NCBI Summary for GPAM** | This gene encodes a mitochondrial enzyme which prefers saturated fatty acids as its substrate for the synthesis of glycerolipids. This metabolic pathway's first step is catalyzed by the encoded enzyme. Two forms for this enzyme exist, one in the mitochondria and one in the endoplasmic reticulum. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Oct 2011] |

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| **UniProt Comments for GPAM** | GPAM: glycerol-3-phosphate acyltransferase is an integral multi-pass enzyme of the mitochondrial outer membrane. It performs the first step in de novo phospholipid biosynthesis. Member of the phospholipid and glycerol acyltransferase family<br><br>Protein type: Lipid Metabolism - glycerolipid; Mitochondrial; Lipid Metabolism - glycerophospholipid; Membrane protein, multi-pass; Transferase; Membrane protein, integral; EC 2.3.1.15<br><br>Chromosomal Location of Human Ortholog: 10q25.2<br><br>Cellular Component: mitochondrial outer membrane; mitochondrial inner membrane; integral to membrane; plasma membrane<br><br>Molecular Function: glycerol-3-phosphate O-acyltransferase activity<br><br>Biological Process: regulation of cytokine secretion; acyl-CoA metabolic process; glycerophospholipid biosynthetic process; triacylglycerol biosynthetic process; cellular lipid metabolic process; positive regulation of multicellular organism growth; fatty acid metabolic process; positive regulation of activated T cell proliferation; fatty acid homeostasis; phospholipid metabolic process; response to glucose stimulus; phosphatidic acid biosynthetic process; CDP-diacylglycerol biosynthetic process; defense response to virus; phospholipid homeostasis |
| **Research Articles on GPAM** | **1.** two transcriptional initiation sites and two promoters (promoter I and II) required for expression of the human GPAT1 (hGPAT1) gene were identified. |
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