

Rabbit GPAT-2 Polyclonal Antibody | anti-GPAT2 antibody

GPAT-2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329113	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(100%), Horse(100%), Rabbit(100%), Dog(100%)	ELISA

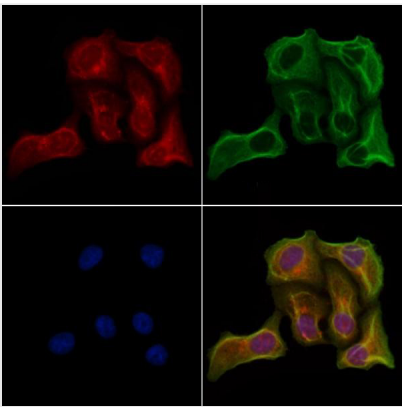
PRODUCT SYNONYMS

GPAT-2; Polyclonal Antibody; GPAT-2 Antibody; Glycerol-3-phosphate acyltransferase 2; GPAT2; GPAT2_HUMAN; mitochondrial; xGPAT1; anti-GPAT2 antibody

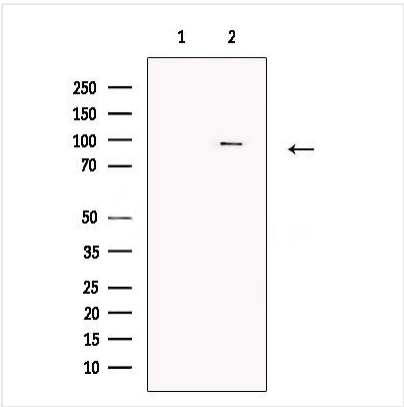
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%), Bovine(100%), Horse(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	GPAT-2 Antibody detects endogenous levels of total GPAT-2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	795
Applicable Applications for anti-GPAT2 antibody	ELISA
Immunogen	A synthesized peptide derived from human GPAT-2, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA329113 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329113) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



WB (Western Blot)
Western blot analysis of extracts from Human pancreas, using GPAT-2 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GPAT2 antibody	Function: Esterifies acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate, an essential step in glycerolipid biosynthesis. Required for primary processing step during piRNA biosynthesis. Molecular mechanisms by which it promotes piRNA biosynthesis are unclear and do not involve its acyltransferase activity.
	Subcellular Location: Mitochondrion outer membrane>Multi-pass membrane protein.
	Subunit Structure: Interacts with PIWIL2.
	Similarity: The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphate. Belongs to the GPAT/DAPAT family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116812614
NCBI GeneID	150763
NCBI Accession #	NP_997211.2
NCBI GenBank Nucleotide #	NP_997211.2
UniProt Accession #	Q6NUI2
Molecular Weight	Observed Molecular Weight: (Observed)87kD. Predicted Molecular Weight: (Calculated)88kDa.
NCBI Official Full Name	glycerol-3-phosphate acyltransferase 2, mitochondrial isoform 1
NCBI Official Synonym Full Names	glycerol-3-phosphate acyltransferase 2, mitochondrial
NCBI Official Symbol	GPAT2
NCBI Official Synonym Symbols	CT123
NCBI Protein Information	glycerol-3-phosphate acyltransferase 2, mitochondrial
UniProt Protein Name	Glycerol-3-phosphate acyltransferase 2, mitochondrial
UniProt Gene Name	GPAT2

UniProt Synonym Gene Names	GPAT-2
UniProt Entry Name	GPAT2_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://www.aaabiotech.com/polyclonal/gpat-2-antibody-elisa/329113>