

GPAT2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55182

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q6NUI2
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87835

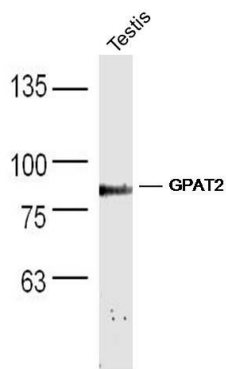
Additional Information

Gene ID	150763
Other Names	Glycerol-3-phosphate acyltransferase 2, mitochondrial, GPAT-2, 2.3.1.15, GPAT2 (HGNC:27168)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=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.

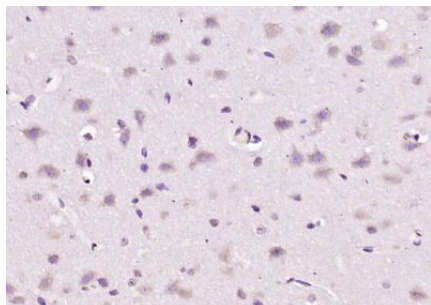
Protein Information

Name	GPAT2 (HGNC:27168)
Function	Transfers an acyl-group from acyl-ACP to the sn-1 position of glycerol-3-phosphate producing a lysophosphatidic acid (LPA), an essential step for the triacylglycerol (TAG) and glycerophospholipids. In vitro also transfers an acyl-group from acyl-ACP to the LPA producing a phosphatidic acid (PA). Prefers arachidonoyl-CoA as the acyl donor. 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.
Cellular Location	Mitochondrion outer membrane {ECO:0000250 UniProtKB:Q14DK4}; Multi-pass membrane protein {ECO:0000250 UniProtKB:Q14DK4}

Images



Sample: Testis (Mouse) Lysate at 40 ug
 Primary: Anti-GPAT2 (AP55182) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 88 kD
 Observed band size: 88 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain);
 Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GPAT2) Polyclonal Antibody, Unconjugated (AP55182 GPAT2) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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