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GNPAT Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6909b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O15228
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21213
Calculated MW	77188
Antigen Region	654-680

Additional Information

Gene ID	8443
Other Names	Dihydroxyacetone phosphate acyltransferase, DAP-AT, DHAP-AT, Acyl-CoA:dihydroxyacetonephosphateacyltransferase, Glycerone-phosphate O-acyltransferase, GNPAT, DAPAT, DHAPAT
Target/Specificity	This GNPAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 654-680 amino acids from the C-terminal region of human GNPAT.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	GNPAT Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GNPAT (HGNC:4416)
Function	Dihydroxyacetonephosphate acyltransferase catalyzing the first step in the

biosynthesis of plasmalogens, a subset of phospholipids that differ from other glycerolipids by having an alkyl chain attached through a vinyl ether linkage at the sn-1 position of the glycerol backbone, and which unique physical properties have an impact on various aspects of cell signaling and membrane biology.

Cellular Location

Peroxisome membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9ES71}; Matrix side {ECO:0000250|UniProtKB:Q9ES71}. Note=Exclusively localized to the lumenal side of the peroxisomal membrane {ECO:0000250|UniProtKB:Q9ES71}

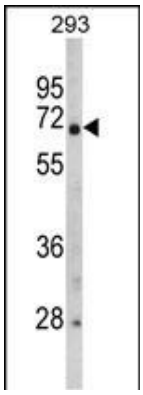
Background

GNPAT is an enzyme located in the peroxisomal membrane which is essential to the synthesis of ether phospholipids.

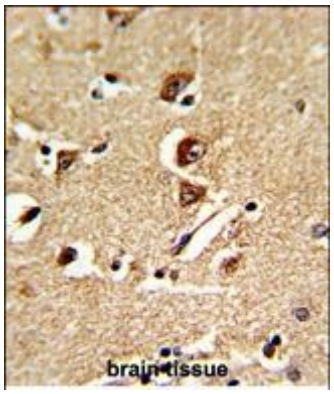
References

Ofman,R., et.al., Biochem. Biophys. Res. Commun. 281 (3), 754-760 (2001)

Images

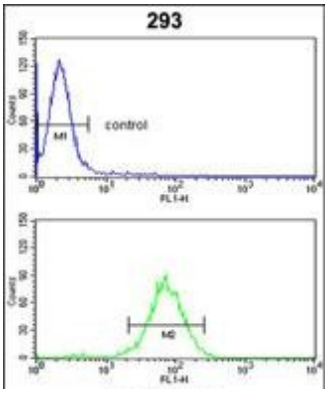


Western blot analysis of GNPAT Antibody (C-term) (Cat. #AP6909b) in 293 cell line lysates (35ug/lane). GNPAT (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with GNPAT Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

GNPAT Antibody (C-term) (Cat. #AP6909b) flow cytometric analysis of 293 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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