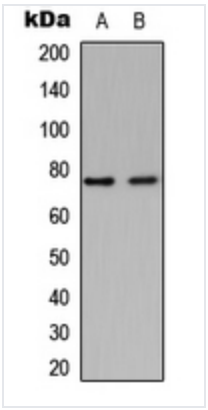
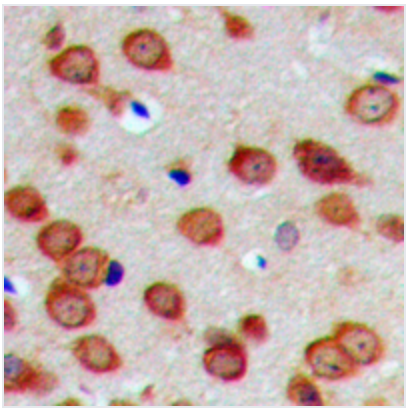
DHAPAT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DHAPAT, Polyclonal Antibody
Full Product Name	Rabbit anti-DHAPAT Antibody
Product Gene Name	anti-DHAPAT antibody
Product Synonym Names	DAPAT; DHAPAT; Dihydroxyacetone phosphate acyltransferase; DAP-AT; DHAP-AT; Acyl-CoA:dihydroxyacetonephosphateacyltransferase; Glycerone-phosphate O-acyltransferase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Pig
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	77,188 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (231376919..231413719). Location: 1q42
OMIM	222765
3D Structure	ModBase 3D Structure for O15228
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DHAPAT. The exact sequence is proprietary.
Product Categories/Family for anti-DHAPAT antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-DHAPAT antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-DHAPAT antibody	WB: 1:500-1:1000 IHC: 1:100-1:200
Related Product Information for anti-DHAPAT antibody	MBS4509498 is an antibody targeting DHAPAT. Also known as Rabbit anti-DHAPAT Antibody. Reactive in Human, Mouse, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-DHAPAT 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.



Western Blot (WB) of anti-DHAPAT antibody
Western blot analysis of DHAPAT expression in HeLa (A), C2C12 (B) whole cell lysates.



Immunohistochemistry (IHC) of anti-DHAPAT antibody
Immunohistochemical analysis of DHAPAT staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

ADDITIONAL DETAILS

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

NCBI GI #	7657134
NCBI GeneID	8443
NCBI Accession #	NP_055051.1
UniProt Primary Accession #	O15228
UniProt Secondary Accession #	P98192
UniProt Related Accession #	O15228
GenBank Nucleotide #	NM_014236.3
NCBI Official Full Name	dihydroxyacetone phosphate acyltransferase
NCBI Official Synonym Full Names	glyceronephosphate O-acyltransferase
NCBI Official Symbol	GNPAT
NCBI Official Synonym Symbols	DAPAT; DAP-AT; DHAPAT
UniProt Protein Name	Dihydroxyacetone phosphate acyltransferase
UniProt Synonym Protein Names	Acyl-CoA:dihydroxyacetonephosphateacyltransferase; Glycerone-phosphate O-acyltransferase
UniProt Gene Name	GNPAT
UniProt Synonym Gene Names	DAPAT; DHAPAT; DAP-AT; DHAP-AT
UniProt Entry Name	GNPAT_HUMAN
NCBI Protein Information	dihydroxyacetone phosphate acyltransferase; DHAP-AT; glycerone-phosphate O-acyltransferase; acyl-CoA:dihydroxyacetonephosphateacyltransferase
NCBI Summary for DHAPAT	This gene encodes an enzyme located in the peroxisomal membrane which is essential to the synthesis of ether phospholipids. Mutations in this gene are associated with rhizomelic chondrodysplasia punctata. [provided by RefSeq, Jul 2008]

UniProt Comments for DHAPAT	GNPAT: Defects in GNPAT are the cause of rhizomelic chondrodysplasia punctata type 2 (RCDP2). RDCP2 is characterized by rhizomelic shortening of femur and humerus, vertebral disorders, cataract, cutaneous lesions and severe mental retardation. Belongs to the GPAT/DAPAT family. Protein type: EC 2.3.1.42; Lipid Metabolism - glycerophospholipid; Transferase Chromosomal Location of Human Ortholog: 1q42 Cellular Component: peroxisomal membrane; peroxisomal matrix; membrane; mitochondrion; peroxisome Molecular Function: glycerone-phosphate O-acyltransferase activity; palmitoyl-CoA hydrolase activity; receptor binding Biological Process: response to starvation; response to drug; synaptogenesis; phospholipid metabolic process; glycerophospholipid biosynthetic process; phosphatidic acid biosynthetic process; cerebellum morphogenesis; cellular lipid metabolic process; response to nutrient; ether lipid biosynthetic process; paranodal junction assembly Disease: Rhizomelic Chondrodysplasia Punctata, Type 2
Research Articles on DHAPAT	**1.** Novel mutations in GNPAT cause rhizomelic chondrodysplasia punctata (RCDP) type 2.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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