Recombinant Human GNPAT 293 Cell Lysate

Cat. No. GNPAT-5843HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for glyceronephosphate O-acyltransferase (GNPAT) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	GNPAT glyceronephosphate O-acyltransferase [Homo sapiens]
Official Symbol	GNPAT
Synonyms	GNPAT; glyceronephosphate O-acyltransferase; dihydroxyacetone phosphate acyltransferase; DAP AT; DAPAT; DHAPAT; DHAP-AT; glycerone-phosphate O-acyltransferase; acyl-CoA:dihydroxyacetonephosphateacyltransferase; DAP-AT;
Gene ID	8443
mRNA Refseq	NM_014236
Protein Refseq	NP_055051
MIM	602744
UniProt ID	O15228
Chromosome Location	1q42
Pathway	Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Peroxisomal lipid metabolism, organism-specific biosystem; Peroxisome, organism-specific biosystem;

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	Peroxisome, conserved biosystem;
Function	glycerol-3-phosphate O-acyltransferase activity; glycerone-phosphate O-acyltransferase activity; glycerone-phosphate O-acyltransferase activity; palmitoyl-CoA hydrolase activity; transferase activity, transferring acyl groups;

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