G-Biosciences Image not found or type unknown

Immunotag™ GNPAT Polyclonal Antibody

Antibody Specification

Catalog No.	ITT1939
Product Description	Immunotag™ GNPAT Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	GNPAT
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human GNPAT. AA range:231-280
Specificity	GNPAT Polyclonal Antibody detects endogenous levels of GNPAT protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	GNPAT
Accession No.	O15228 P98192
Alternate Names	GNPAT; DAPAT; DHAPAT; Dihydroxyacetone phosphate acyltransferase; DAP-AT; DHAP-AT; Acyl-CoA:dihydroxyacetonephosphateacyltransferase; Glycerone-phosphate O-acyltransferase

Antibody Specification

Description	glyceronephosphate O-acyltransferase(GNPAT) Homo sapiens 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015],
Cell Pathway/ Category	Glycerophospholipid metabolism,
Protein Expression	Aorta endothelial cell,Brain,Liver,Lung,Thymus,
Subcellular Localization	mitochondrion,peroxisome,peroxisomal membrane,peroxisomal matrix,membrane,
Protein Function	catalytic activity:Acyl-CoA + glycerone phosphate = CoA + acylglycerone phosphate.,disease:Defects in GNPAT are the cause of rhizomelic chondrodysplasia punctata type 2 (RCDP2) [MIM:222765]. RDCP2 is characterized by rhizomelic shortening of femur and humerus, vertebral disorders, cataract, cutaneous lesions and severe mental retardation.,domain:The HXXXXD motif is essential for acyltransferase activity and may constitute the binding site for the phosphate moiety of the glycerol-3-phosphate.,pathway:Membrane lipid metabolism; glycerophospholipid metabolism.,similarity:Belongs to the GPAT/DAPAT family.,subcellular location:Exclusively localized to the lumenal side of the peroxisomal membrane.,subunit:May be part of an heterotrimeric complex composed of DAP-AT, ADAP-S and a modified form of DAP-AT.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.