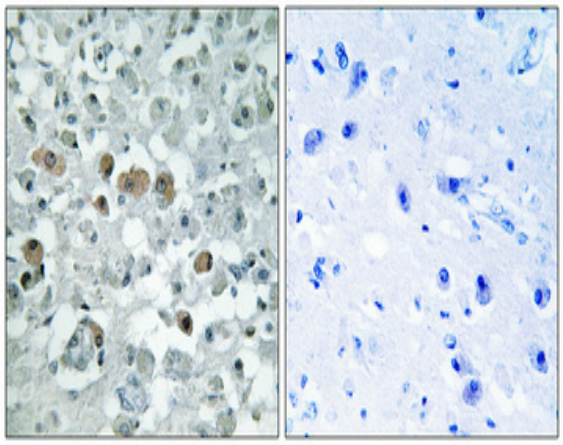
Best Tools for immunology Research

GNPAT Polyclonal Antibody

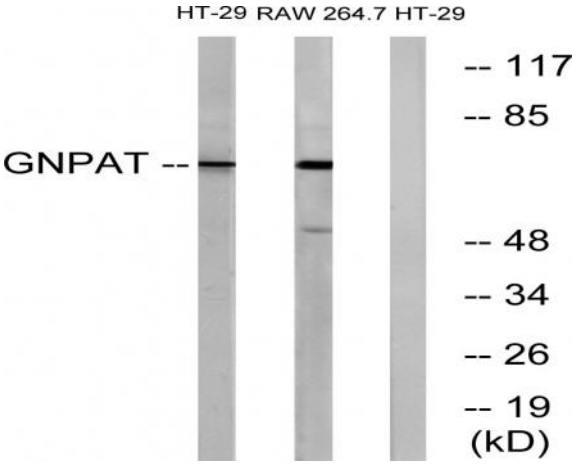
Catalog No :	YT1939
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	GNPAT
Fields :	>>Glycerophospholipid metabolism;>>Peroxisome
Gene Name :	GNPAT
Protein Name :	Dihydroxyacetone phosphate acyltransferase
Human Gene Id :	8443
Human Swiss Prot No :	O15228
Mouse Swiss Prot No :	P98192
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.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band :	77kD
Cell Pathway :	Glycerophospholipid metabolism;
Background :	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],
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.,
Subcellular Location :	Peroxisome membrane ; Peripheral membrane protein ; Matrix side . Exclusively localized to the lumenal side of the peroxisomal membrane. .
Expression :	Aorta endothelial cell,Brain,Liver,Lung,Thymus,
Sort :	6680
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from HT-29 and RAW264.7 cells, using GNPAT Antibody. The lane on the right is blocked with the synthesized peptide.