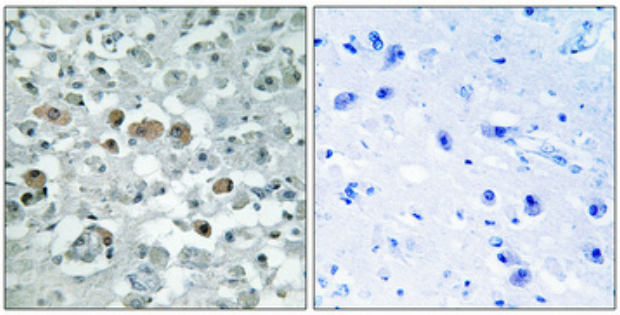
GNPAT Polyclonal Antibody

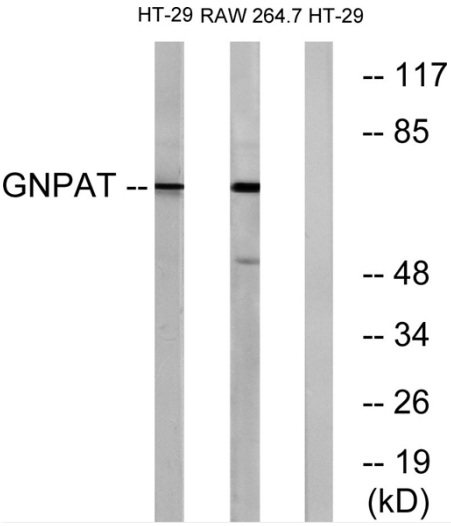
Catalog No	BYab-02646
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	GNPAT
Protein Name	Dihydroxyacetone phosphate acyltransferase
Immunogen	The antiserum was produced against synthesized peptide derived from human GNPAT. AA range:231-280
Specificity	GNPAT Polyclonal Antibody 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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	GNPAT; DAPAT; DHAPAT; Dihydroxyacetone phosphate acyltransferase; DAP-AT; DHAP-AT; Acyl-CoA:dihydroxyacetonephosphateacyltransferase; Glycerone-phosphate O-acyltransferase
Observed Band	77kD
Cell Pathway	Peroxisome membrane ; Peripheral membrane protein ; Matrix side . Exclusively localized to the lumenal side of the peroxisomal membrane. .
Tissue Specificity	Aorta endothelial cell,Brain,Liver,Lung,Thymus,
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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.