10320 Camino Santa Fe, Suite G
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GLYAT Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13064c

Specification

GLYAT Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q6IB77
Other Accession	O77512, NP_964011.2, NP_005829.3
Reactivity	**Human**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**33924**
Antigen Region	**171-199**

GLYAT Antibody (Center) - Additional Information

Gene ID 10249

Other Names
Glycine N-acyltransferase, Acyl-CoA:glycine N-acyltransferase, AAc, Aralkyl acyl-CoA N-acyltransferase, Aralkyl acyl-CoA:amino acid N-acyltransferase, Benzoyl-coenzyme A:glycine N-acyltransferase, Glycine N-benzoyltransferase, HRP-1(CLP), GLYAT, ACGNAT, CAT, GAT

Target/Specificity
This GLYAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-199 amino acids from the Central region of human GLYAT.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GLYAT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GLYAT Antibody (Center) - Protein Information

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Name GLYAT

Synonyms ACGNAT, CAT, GAT

Function Mitochondrial acyltransferase which transfers an acyl group to the N-terminus of glycine and glutamine, although much less efficiently. Can conjugate numerous substrates to form a variety of N- acylglycines, with a preference for benzoyl-CoA over phenylacetyl-CoA as acyl donors. Thereby detoxify xenobiotics, such as benzoic acid or salicylic acid, and endogenous organic acids, such as isovaleric acid.

Cellular Location
Mitochondrion.

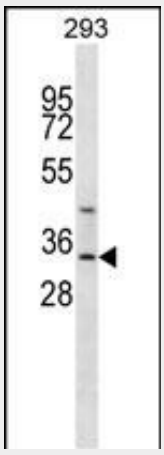
Tissue Location
Predominantly expressed in liver (at protein level) and kidney. Down-regulated in hepatocellular carcinoma and other liver cancers.

GLYAT Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GLYAT Antibody (Center) - Images



GLYAT Antibody (Center) (Cat. #AP13064c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the GLYAT antibody detected the GLYAT protein (arrow).

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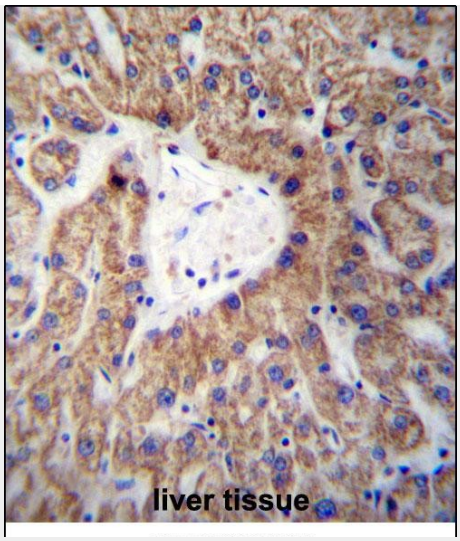

GLYAT Antibody (Center) (Cat. #AP13064c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GLYAT Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

GLYAT Antibody (Center) - Background

The glycine-N-acyltransferase protein conjugates glycine with acyl-CoA substrates in the mitochondria. The protein is thought to be important in the detoxification of endogenous and xenobiotic acyl-CoA's. Two transcript variants encoding different isoforms have been found for this gene.

GLYAT Antibody (Center) - References

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