

## GCAT Antibody (N-term) Blocking peptide

Synthetic peptide Catalog # BP12897a

### **Specification**

## GCAT Antibody (N-term) Blocking peptide - Product Information

**Primary Accession** 

075600

## GCAT Antibody (N-term) Blocking peptide - Additional Information

**Gene ID 23464** 

#### **Other Names**

2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial, AKB ligase, Aminoacetone synthase, Glycine acetyltransferase, GCAT, KBL

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### GCAT Antibody (N-term) Blocking peptide - Protein Information

Name GCAT (HGNC:4188)

Synonyms KBL

#### **Function**

Pyridoxal phosphate (PLP) dependent enzyme, which catalyzes the cleavage of 2-amino-3-oxobutanoate to glycine and acetyl-CoA.

## **Cellular Location**

Mitochondrion {ECO:0000250|UniProtKB:Q0P5L8}. Nucleus. Note=Translocates to the nucleus upon cold and osmotic stress.

#### **Tissue Location**

Strongly expressed in heart, brain, liver and pancreas. Also found in lung.

## GCAT Antibody (N-term) Blocking peptide - Protocols

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



• Blocking Peptides

## GCAT Antibody (N-term) Blocking peptide - Images

## GCAT Antibody (N-term) Blocking peptide - Background

The degradation of L-threonine to glycine consists of atwo-step biochemical pathway involving the enzymes L-threoninedehydrogenase and 2-amino-3-ketobutyrate coenzyme A ligase.L-Threonine is first converted into 2-amino-3-ketobutyrate byL-threonine dehydrogenase. This gene encodes the second enzyme inthis pathway, which then catalyzes the reaction between2-amino-3-ketobutyrate and coenzyme A to form glycine andacetyl-CoA. The encoded enzyme is considered a class Ilpyridoxal-phosphate-dependent aminotransferase. Alternate splicingresults in multiple transcript variants. A pseudogene of this geneis found on chromosome 14.

# GCAT Antibody (N-term) Blocking peptide - References

Jacquot, C., et al. Anticancer Res. 22(4):2229-2235(2002)Edgar, A.J., et al. Eur. J. Biochem. 267(6):1805-1812(2000)Tressel, T., et al. J. Biol. Chem. 261(35):16428-16437(1986)