

GCAT Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7498c**Specification****GCAT Antibody (Center) Blocking Peptide -
Product Information**Primary Accession [O75600](#)**GCAT Antibody (Center) Blocking Peptide -
Additional Information**

Gene ID 23464

Other Names2-amino-3-ketobutyrate coenzyme A ligase,
mitochondrial, AKB ligase, Aminoacetone
synthase, Glycine acetyltransferase, GCAT,
KBL**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7498c](/products/AP7498c) was selected from the Center region of human GCAT. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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 (Center) Blocking Peptide -
Protein Information**

Name GCAT

**GCAT Antibody (Center) Blocking Peptide -
Background**

The degradation of L-threonine to glycine consists of a two-step biochemical pathway involving the enzymes L-threonine dehydrogenase and 2-amino-3-ketobutyrate coenzyme A ligase. L-Threonine is first converted into 2-amino-3-ketobutyrate by L-threonine dehydrogenase. GCAT is the second enzyme in this pathway, which then catalyzes the reaction between 2-amino-3-ketobutyrate and coenzyme A to form glycine and acetyl-CoA. The enzyme is considered a class II pyridoxal-phosphate-dependent aminotransferase.

**GCAT Antibody (Center) Blocking Peptide -
References**

Edgar,A.J., Polak,J.M.Eur. J. Biochem. 267 (6), 1805-1812 (2000)Tressel,T., Thompson,R., J. Biol. Chem. 261 (35), 16428-16437 (1986)

Synonyms KBL**Cellular Location**

Mitochondrion. 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)