

**AMT Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6739a****Specification**

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**AMT Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [P48728](#)

**AMT Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 275

**Other Names**

Aminomethyltransferase, mitochondrial, Glycine cleavage system T protein, GCVT, AMT, GCST

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6739a](/products/AP6739a) was selected from the N-term region of human AMT. 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.

**AMT Antibody (N-term) Blocking Peptide - Protein Information**

**Name** AMT ([HGNC:473](#))

**Function**

The glycine cleavage system catalyzes the degradation of glycine.

**Cellular Location**

Mitochondrion.

**AMT Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**AMT Antibody (N-term) Blocking Peptide - Images****AMT Antibody (N-term) Blocking Peptide - Background**

The enzyme system for cleavage of glycine (glycine cleavage system; EC 2.1.2.10), which is confined to the mitochondria, is composed of 4 protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase; MIM 238300), H protein (a lipoic acid-containing protein; MIM 238330), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase; MIM 238331). Glycine encephalopathy (GCE; MIM 605899) may be due to a defect in any one of these enzymes.

**AMT Antibody (N-term) Blocking Peptide - References**

Nanao,K., Genomics 19 (1), 27-30 (1994)