

GATM Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP10442a**Specification**

GATM Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P50440](#)
Other Accession [NP_001473.1](#)

GATM Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 2628

Other Names

Glycine amidinotransferase, mitochondrial, L-arginine:glycine amidinotransferase, Transamidinase, GATM, AGAT

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.

GATM Antibody (N-term) Blocking Peptide - Protein Information

Name GATM

Synonyms AGAT

Function

Transamidinase that catalyzes the transfer of the amidino group of L-arginine onto the amino moiety of acceptor metabolites such as glycine, beta-alanine, gamma-aminobutyric acid (GABA) and taurine yielding the corresponding guanidine derivatives (PubMed:3800397, PubMed:16820567, PubMed:36543883, PubMed:27233232). Catalyzes the rate- limiting step of creatine biosynthesis, namely the transfer of the amidino group from L-arginine to glycine to generate guanidinoacetate, which is then methylated by GAMT to form creatine. Provides creatine as a source for ATP generation in tissues with high energy demands, in particular skeletal muscle, heart and brain (PubMed:3800397, PubMed:36543883, PubMed:9266688, PubMed:27233232) (Probable).

Cellular Location

[Isoform 1]: Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side.
Note=Probably attached to the outer side of the inner membrane

Tissue Location

Expressed in brain, heart, kidney, liver, lung, salivary gland and skeletal muscle tissue, with the highest expression in kidney. Biallelically expressed in placenta and fetal tissues

GATM Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GATM Antibody (N-term) Blocking Peptide - Images