

AGXT2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9834b**Specification**

AGXT2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9BYV1](#)**AGXT2 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 64902

Other Names

Alanine--glyoxylate aminotransferase 2, mitochondrial, AGT 2,
(R)-3-amino-2-methylpropionate--pyruvate transaminase, Beta-ALAAT II, Beta-alanine-pyruvate
aminotransferase, D-AIBAT, AGXT2, AGT2

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.

AGXT2 Antibody (C-term) Blocking Peptide - Protein Information

Name AGXT2

Synonyms AGT2

Function

Multifunctional aminotransferase with a broad substrate specificity (PubMed:20018850, PubMed:24586340, PubMed:23023372). Catalyzes the conversion of glyoxylate to glycine using alanine as the amino donor (By similarity). Catalyzes metabolism of not L- but the D- isomer of D-beta-aminoisobutyric acid to generate 2-methyl-3-oxopropanoate and alanine (PubMed:24586340). Catalyzes the transfer of the amino group from beta-alanine to pyruvate to yield L-alanine and 3-oxopropanoate (By similarity). Can metabolize NG-monomethyl-L-arginine (NMMA), asymmetric NG,NG-dimethyl-L-arginine (ADMA) and symmetric NG,N'-G-dimethyl-L-arginine (SDMA) (PubMed:20018850, PubMed:23023372). ADMA is a potent inhibitor of nitric-oxide (NO) synthase, and this activity provides mechanism through which

the kidney regulates blood pressure (PubMed:20018850, PubMed:23023372).

Cellular Location

Mitochondrion

Tissue Location

Expressed in the convoluted tubule in the kidney and in the liver hepatocytes (at protein level)

AGXT2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AGXT2 Antibody (C-term) Blocking Peptide - Images**AGXT2 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is a class III pyridoxal-phosphate-dependent mitochondrial aminotransferase. It catalyzes the conversion of glyoxylate to glycine using L-alanine as the amino donor.

AGXT2 Antibody (C-term) Blocking Peptide - References

Rodionov, R.N., et al. J. Biol. Chem. 285(8):5385-5391(2010) Baker, P.R., et al. Am. J. Physiol., Cell Physiol. 287 (5), C1359-C1365 (2004)