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AGXT2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9834b

Specification

AGXT2 Antibody (C-term) - Product Information

Application	**WB, FC,E**
Primary Accession	Q9BYV1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**57156**
Antigen Region	**437-463**

AGXT2 Antibody (C-term) - 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

Target/Specificity
This AGXT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 437-463 amino acids from the C-terminal region of human AGXT2.

Dilution
WB~~1:1000
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
AGXT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AGXT2 Antibody (C-term) - Protein Information

Name AGXT2

Synonyms AGT2

Function Multifunctional aminotransferase with a broad substrate specificity (PubMed:20018850, PubMed:23023372, PubMed:24586340). 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

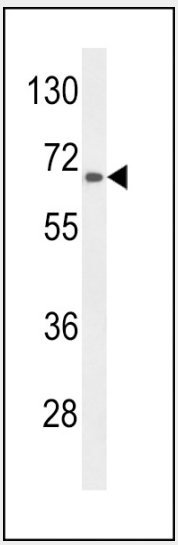
Tissue Location
Expressed in the convoluted tubule in the kidney and in the liver hepatocytes (at protein level)

AGXT2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AGXT2 Antibody (C-term) - Images



Western blot analysis of lysate from HepG2 cell line, using AGXT2 Antibody (C-term)(Cat. #AP9834b). AP9834b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

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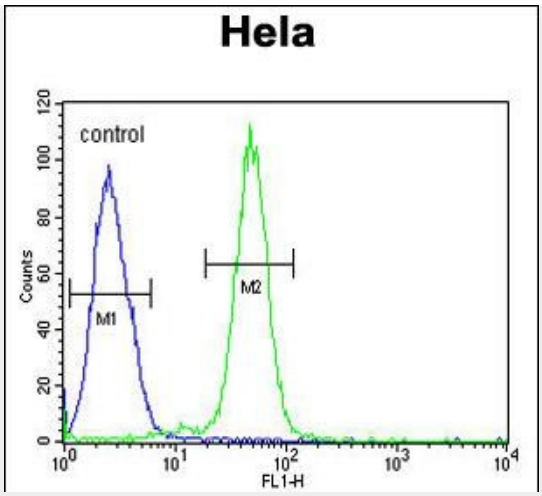

AGXT2 Antibody (C-term) (Cat. #AP9834b) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

AGXT2 Antibody (C-term) - 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) - 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)