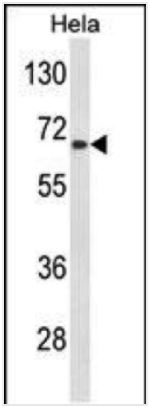
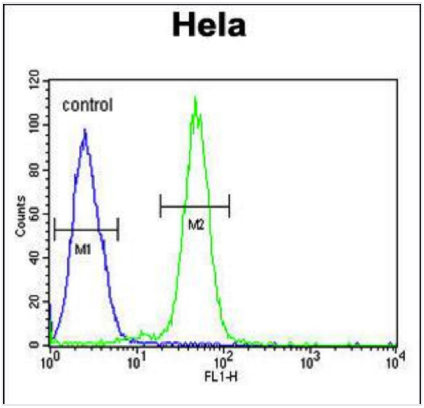
AGXT2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AGXT2, Polyclonal Antibody
Full Product Name	AGXT2, CT (AGXT2, AGT2, Alanine-glyoxylate aminotransferase 2, mitochondrial, (R)-3-amino-2-methylpropionate-pyruvate transaminase, Beta-ALAAT II, Beta-alanine-pyruvate aminotransferase, D-AIBAT)
Product Gene Name	anti-AGXT2 antibody
Product Synonym Names	Anti -AGXT2, CT (AGXT2, AGT2, Alanine-glyoxylate aminotransferase 2, mitochondrial, (R)-3-amino-2-methylpropionate-pyruvate transaminase, Beta-ALAAT II, Beta-alanine-pyruvate aminotransferase, D-AIBAT)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	57,156 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (34998206..35048293, complement). Location: 5p13
OMIM	612471
3D Structure	ModBase 3D Structure for Q9BYV1
Immunogen	AGXT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 443~473 amino acids from the C-terminal region of human AGXT2.
Product Categories/Family for anti-AGXT2 antibody	Antibodies; Abs to Enzymes; Aminotransferase
Applications Tested/Suitable for anti-AGXT2 antibody	ELISA (EL/EIA), Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-AGXT2 antibody	Suitable for use in Western Blot, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Flow Cytometry: 1:10-50
Related Product Information for anti-AGXT2 antibody	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.
Other Notes	Small volumes of anti-AGXT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AGXT2 purchase	MBS6005295 is an antibody targeting AGXT2. Also known as AGXT2, CT (AGXT2, AGT2, Alanine-glyoxylate aminotransferase 2, mitochondrial, (R)-3-amino-2-methylpropionate-pyruvate transaminase, Beta-ALAAT II, Beta-alanine-pyruvate aminotransferase, D-AIBAT). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-AGXT2 antibody
Western blot analysis of AGXT2 Antibody (C-term) in Hela cell line lysates (35ug/lane). AGXT2 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-AGXT2 antibody
AGXT2 Antibody (C-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGXT2. It may not necessarily be applicable to this product.

NCBI GI #	13994255
NCBI GeneID	64902
NCBI Accession #	NP_114106.1
UniProt Primary Accession #	Q9BYV1
UniProt Secondary Accession #	Q53FB4; Q53FY7; Q53G03; Q5W7Q1
UniProt Related Accession #	Q9BYV1
GenBank Nucleotide #	NM_031900.3
NCBI Official Full Name	alanine--glyoxylate aminotransferase 2, mitochondrial
NCBI Official Synonym Full Names	alanine--glyoxylate aminotransferase 2
NCBI Official Symbol	AGXT2
NCBI Official Synonym Symbols	AGT2; DAIBAT
UniProt Protein Name	Alanine--glyoxylate aminotransferase 2, mitochondrial
UniProt Synonym Protein Names	(R)-3-amino-2-methylpropionate--pyruvate transaminase (EC:2.6.1.40); Beta-ALAAT II; Beta-alanine-pyruvate aminotransferase; D-AIBAT
Protein Family	Alanine--glyoxylate aminotransferase
UniProt Gene Name	AGXT2
UniProt Synonym Gene Names	AGT2; AGT 2
UniProt Entry Name	AGT2_HUMAN
NCBI Protein Information	alanine--glyoxylate aminotransferase 2, mitochondrial; beta-ALAAT II; beta-alanine-pyruvate aminotransferase; (R)-3-amino-2-methylpropionate--pyruvate transaminase

UniProt Comments for AGXT2	AGXT2: is a class III pyridoxal-phosphate-dependent mitochondrial aminotransferase. It catalyzes the conversion of glyoxylate to glycine using L-alanine as the amino donor. [provided by RefSeq, Dec 2008] Protein type: Transferase; Mitochondrial; Amino Acid Metabolism - alanine, aspartate and glutamate; EC 2.6.1.40; EC 2.6.1.44 Chromosomal Location of Human Ortholog: 5p13 Cellular Component: mitochondrion; mitochondrial matrix Molecular Function: beta-alanine-pyruvate transaminase activity; alanine-glyoxylate transaminase activity; (R)-3-amino-2-methylpropionate-pyruvate transaminase activity; pyridoxal phosphate binding Biological Process: pyrimidine nucleoside catabolic process; positive regulation of nitric oxide biosynthetic process; pyrimidine base metabolic process; glyoxylate catabolic process; nucleobase, nucleoside and nucleotide metabolic process; glyoxylate metabolic process; glycine biosynthetic process, by transamination of glyoxylate; L-alanine catabolic process, by transamination
Research Articles on AGXT2	**1.** Alanine-glyoxylate aminotransferase-2 metabolizes endogenous methylarginines, regulates NO, and controls blood pressure.
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