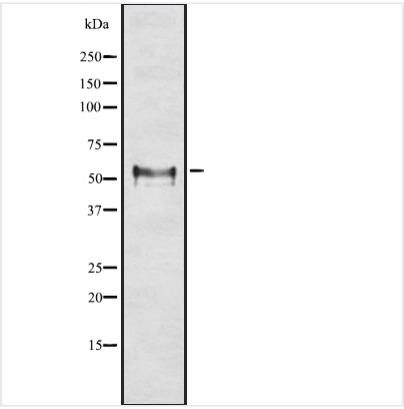
ABAT Antibody

PRODUCT OVERVIEW

Product Name	ABAT, Antibody
Full Product Name	ABAT Antibody
Product Gene Name	anti-ABAT antibody
Molecular Weight	56,439 Da
OMIM	137150
3D Structure	ModBase 3D Structure for P80404
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-ABAT antibody	MBS8517378 is an antibody targeting ABAT. Also known as ABAT Antibody.
Other Notes	Small volumes of anti-ABAT 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.



Western Blot (WB) of anti-ABAT antibody
Western blot analysis ABAT using NIH-3T3 whole cell lysates

ADDITIONAL DETAILS

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

NCBI GI #	38679950
NCBI GeneID	18
NCBI Accession #	NP_000654.2
UniProt Primary Accession #	P80404
UniProt Secondary Accession #	Q16260; Q8N5W2; Q96BG2; Q99800; A8K386
UniProt Related Accession #	P80404
GenBank Nucleotide #	NM_000663.4
NCBI Official Full Name	4-aminobutyrate aminotransferase, mitochondrial

NCBI Official Synonym Full Names	4-aminobutyrate aminotransferase
NCBI Official Symbol	ABAT
NCBI Official Synonym Symbols	GABAT; NPD009; GABA-AT
UniProt Protein Name	4-aminobutyrate aminotransferase, mitochondrial
UniProt Synonym Protein Names	(S)-3-amino-2-methylpropionate transaminase (EC:2.6.1.22); GABA aminotransferase; GABA-AT; Gamma-amino-N-butyrate transaminase; GABA transaminase; GABA-T; L-AIBAT
UniProt Gene Name	ABAT
UniProt Synonym Gene Names	GABAT; GABA-AT; GABA transaminase; GABA-T
NCBI Protein Information	4-aminobutyrate aminotransferase, mitochondrial
NCBI Summary for ABAT	4-aminobutyrate aminotransferase (ABAT) is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyridoxal-5-phosphate. The protein sequence is over 95% similar to the pig protein. GABA is estimated to be present in nearly one-third of human synapses. ABAT in liver and brain is controlled by 2 codominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficiency phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ABAT	Catalyzes the conversion of gamma-aminobutyrate and L-beta-aminoisobutyrate to succinate semialdehyde and methylmalonate semialdehyde, respectively. Can also convert delta-aminovalerate and beta-alanine.
Research Articles on ABAT	**1.** This study utilized ER+ IBC to identify a metagene including ABAT and STC2 as predictive biomarkers for endocrine therapy resistance.
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