AMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AMT, Polyclonal Antibody
Full Product Name	AMT (N-Term) Rabbit pAb
Product Gene Name	anti-AMT antibody
Product Synonym Names	Aminomethyltransferase, mitochondrial; Glycine cleavage system T protein; GCVT; AMT; GCST
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB19704
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	238310
3D Structure	ModBase 3D Structure for P48728
Immunogen	This AMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-45 amino acids from the N-terminal region of human AMT.
Cellular Localization	Mitochondrion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AMT antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-AMT antibody	WB: 1:1000 IHC: 1:50-100 FC/FACS: 1:10-50
Related Product Information for anti-AMT antibody	MBS8554737 is an antibody targeting AMT. Also known as AMT (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-AMT 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.

ADDITIONAL DETAILS

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

NCBI GI #	44662838
NCBI GeneID	275
NCBI Accession #	NP_000472.2
UniProt Primary Accession #	P48728

UniProt Related Accession #	P48728
GenBank Nucleotide #	NP_000472.2
NCBI Official Full Name	aminomethyltransferase, mitochondrial isoform 1
NCBI Official Synonym Full Names	aminomethyltransferase
NCBI Official Symbol	AMT
NCBI Official Synonym Symbols	GCE; NKH; GCST; GCVT
UniProt Protein Name	Aminomethyltransferase, mitochondrial
UniProt Synonym Protein Names	Glycine cleavage system T protein; GCVT
Protein Family	Probable ammonia channel
UniProt Gene Name	AMT
UniProt Synonym Gene Names	GCST; GCVT
UniProt Entry Name	GCST_HUMAN
NCBI Protein Information	aminomethyltransferase, mitochondrial
NCBI Summary for AMT	This gene encodes one of four critical components of the glycine cleavage system. Mutations in this gene have been associated with glycine encephalopathy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]
UniProt Comments for AMT	AMT: The glycine cleavage system catalyzes the degradation of glycine. Defects in AMT are a cause of non-ketotic hyperglycinemia (NKH); also known as glycine encephalopathy (GCE). NKH is an autosomal recessive disease characterized by accumulation of a large amount of glycine in body fluid and by severe neurological symptoms. Belongs to the GcvT family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Amino Acid Metabolism - glycine, serine and threonine; Cofactor and Vitamin Metabolism - one carbon pool by folate; EC 2.1.2.10; Energy Metabolism - nitrogen; Methyltransferase; Mitochondrial Chromosomal Location of Human Ortholog: 3p21.31 Cellular Component: mitochondrial matrix; mitochondrion Molecular Function: aminomethyltransferase activity Biological Process: glycine catabolic process; glycine decarboxylation via glycine cleavage system; glyoxylate metabolic process Disease: Glycine Encephalopathy
Research Articles on AMT	**1.** The position and frequency of the breakpoint for CNVs correlated with intron size and presence of Alu elements. Missense mutations, most often recurring, were the most common type of disease-causing mutation in AMT
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