

Mouse GATM Monoclonal Antibody | anti-GATM antibody

GATM antibody

CATALOG #	HOST	APPLICATIONS
AAA74752	Mouse	Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

GATM; Monoclonal Antibody; GATM antibody; Monoclonal GATM; Anti-GATM; Glycine Amidinotransferase; L-Arginine:Glycine Amidinotransferase; AGAT; AT; anti-GATM antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1C9
Purity/Purification	GATM antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	423
Applicable Applications for anti-GATM antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	GATM is a mitochondrial enzyme that belongs to the amidinotransferase family. This enzyme is involved in creatine biosynthesis, whereby it catalyzes the transfer of a guanido group from L-arginine to glycine, resulting in guanidinoacetic acid, the immediate precursor of creatine. Mutations in this gene cause arginine:glycine amidinotransferase deficiency, an inborn error of creatine synthesis characterized by mental retardation, language impairment, and behavioral disorders.
Cross-Reactivity	Human
Immunogen	GATM antibody was raised in mouse using a full length recombinant protein of human GATM (NP_001473) produced in HEK293 cell as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant GATM protein using GATM antibody



IHC (Immunohistochemistry)

Immunohistochemical analysis of GATM protein in paraffin embedded Human liver tissue using GATM antibody



WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant GATM protein (Right) or empty vector (Left) detected with GATM antibody

ADDITIONAL INFORMATION

Related Product Information for anti-GATM antibody	Mouse monoclonal GATM antibody
Product Categories/Family for anti-GATM antibody	Proteases ; Inhibitors ; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503933
NCBI GeneID	2628
NCBI Accession #	NP_001473
NCBI GenBank Nucleotide #	NM_001482.2
UniProt Accession #	P50440 ; Q53EQ4 ; B4DH99 ; B4DPI3
Molecular Weight	44,943 Da
NCBI Official Full Name	glycine amidinotransferase, mitochondrial
NCBI Official Synonym Full Names	glycine amidinotransferase (L-arginine:glycine amidinotransferase)
NCBI Official Symbol	GATM
NCBI Official Synonym Symbols	AT; AGAT; CCDS3
NCBI Protein Information	glycine amidinotransferase, mitochondrial
UniProt Protein Name	Glycine amidinotransferase, mitochondrial
UniProt Gene Name	GATM
UniProt Synonym Gene Names	AGAT
UniProt Entry Name	GATM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/gatm-antibody-clone-1c9-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/74752>