ARG58725
anti-GATM antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GATM
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GATM
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 124-423 of Human GATM (NP_001473.1).
Conjugation	Un-conjugated
Alternate Names	CCDS3; Transamidinase; EC 2.1.4.1; Glycine amidinotransferase, mitochondrial; AT; AGAT; L-arginine:glycine amidinotransferase

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse kidney
Observed Size	43 kDa

Properties

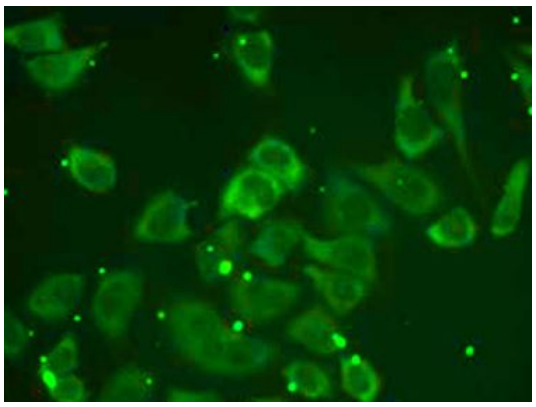
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

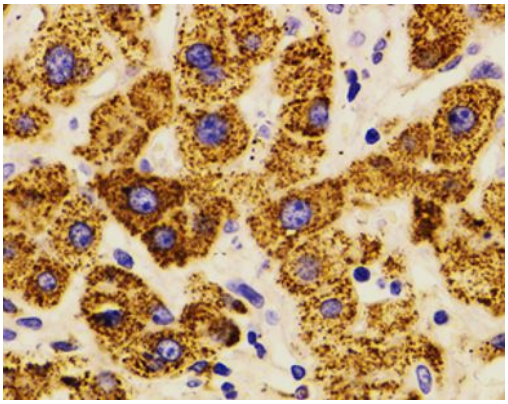
Gene Symbol	GATM
Gene Full Name	glycine amidinotransferase (L-arginine:glycine amidinotransferase)
Background	This gene encodes a mitochondrial enzyme that belongs to the amidinotransferase family. This enzyme is involved in creatine biosynthesis, whereby it catalyzes the transfer of a guanido group 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. [provided by RefSeq, Jul 2008]
Function	Catalyzes the biosynthesis of guanidinoacetate, the immediate precursor of creatine. Creatine plays a vital role in energy metabolism in muscle tissues. May play a role in embryonic and central nervous system development. May be involved in the response to heart failure by elevating local creatine synthesis. [UniProt]
Calculated Mw	48 kDa
Cellular Localization	Mitochondrion inner membrane, Peripheral membrane protein, Intermembrane side, Cytoplasm. [UniProt]

Images



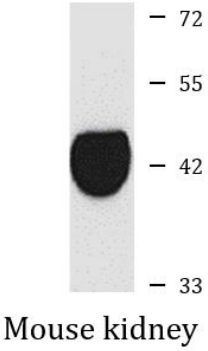
ARG58725 anti-GATM antibody ICC/IF image

Immunofluorescence: A549 cells stained with ARG58725 anti-GATM antibody.



ARG58725 anti-GATM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver cancer stained with ARG58725 anti-GATM antibody at 1:100 dilution.



ARG58725 anti-GATM antibody WB image

Western blot: 25 µg of Mouse kidney lysate stained with ARG58725 anti-GATM antibody at 1:1000 dilution.