

Product datasheet for **TA503147**

GATM Mouse Monoclonal Antibody [Clone ID: OTI1C9]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI1C9 |
| Applications: | FC, IF, IHC, WB |
| Recommended Dilution: | WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human GATM(NP_001473) produced in HEK293 cell. |
| Formulation: | PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 1 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 44.2 kDa |
| Gene Name: | glycine amidinotransferase |
| Database Link: | NP_001473 Entrez Gene 67092 Mouse Entrez Gene 81660 Rat Entrez Gene 2628 Human P50440 |
| 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] |



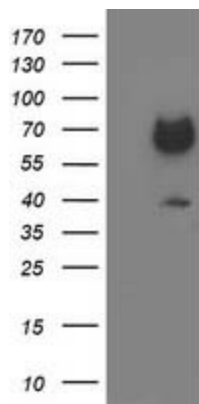
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Synonyms: AGAT; AT; CCDS3

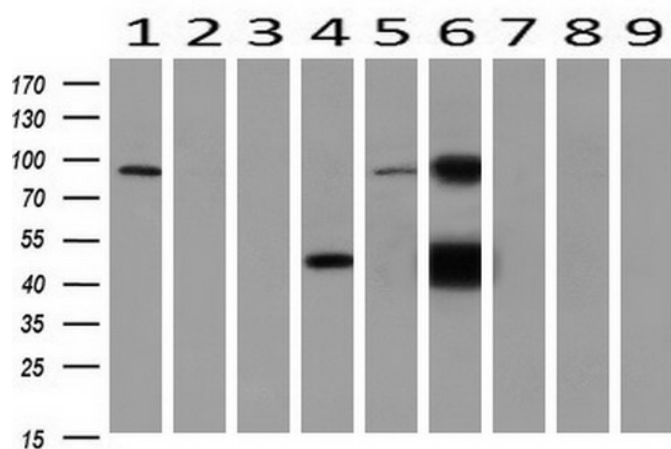
Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Glycine, serine and threonine metabolism, Metabolic pathways

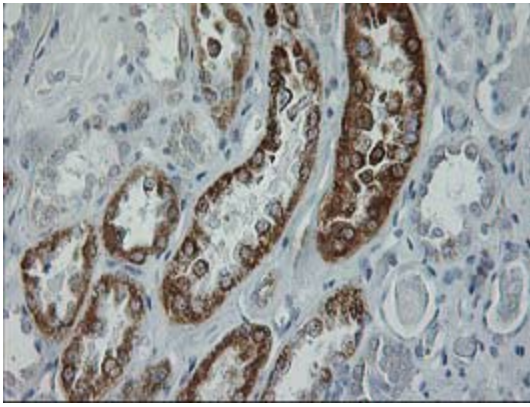
Product images:



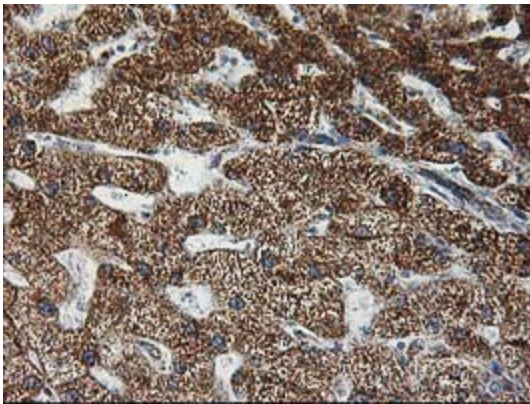
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GATM [RC200474], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GATM. Positive lysates [LY419923] (100ug) and [LC419923] (20ug) can be purchased separately from OriGene.



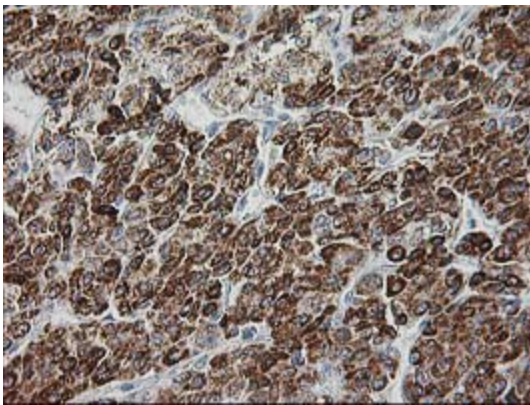
Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-GATM monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).



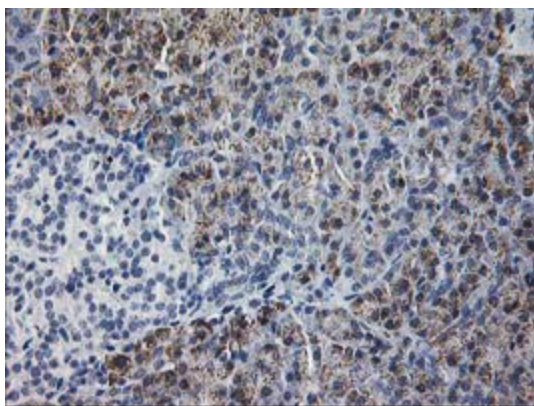
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503147)



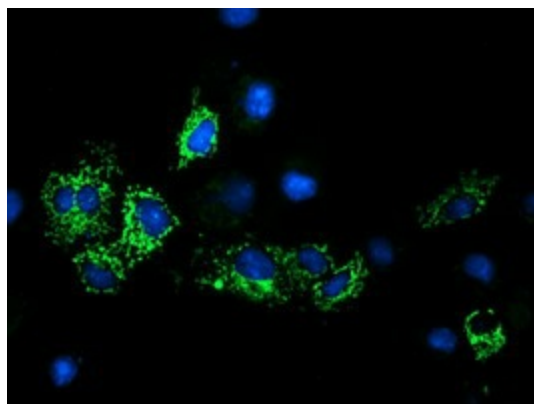
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503147)



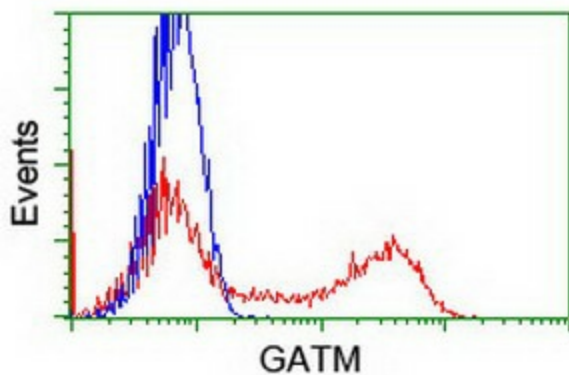
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503147)



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503147)



Anti-GATM mouse monoclonal antibody (TA503147) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GATM ([RC200474]).



HEK293T cells transfected with either [RC200474] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GATM antibody (TA503147), and then analyzed by flow cytometry.