

## Product datasheet for **TA503147AM**

### **GATM Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OT1C9]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OT1C9
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human GATM(NP_001473) produced in HEK293 cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	0.5 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Biotin
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	44.2 kDa
<b>Gene Name:</b>	glycine amidinotransferase
<b>Database Link:</b>	<a href="#">NP_001473</a> <a href="#">Entrez Gene 67092 Mouse</a> <a href="#">Entrez Gene 81660 Rat</a> <a href="#">Entrez Gene 2628 Human</a> <a href="#">P50440</a>
<b>Background:</b>	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]



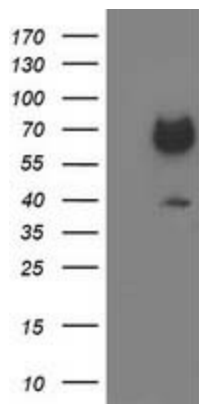
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**Synonyms:** AGAT; AT; CCDS3

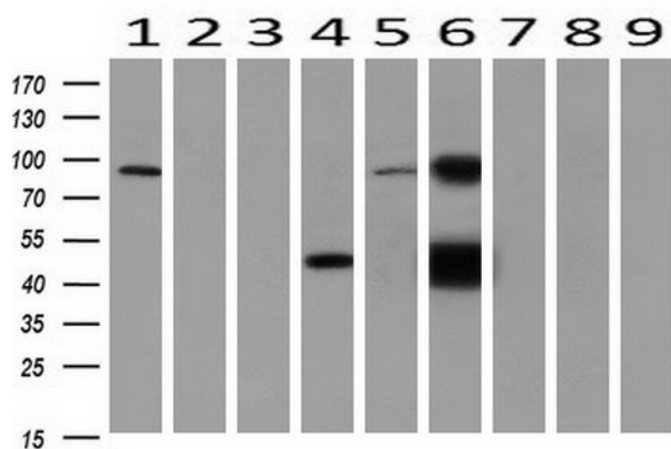
**Protein Families:** Druggable Genome

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

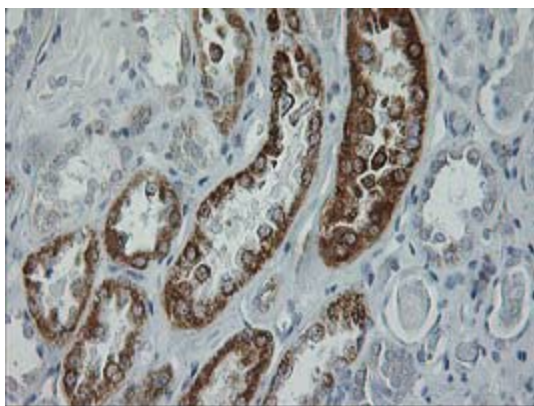
**Product images:**



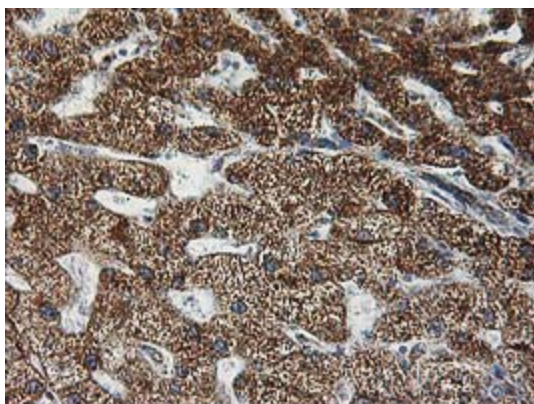
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GATM [RC200474], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GATM. Positive lysates [LY419923] (100ug) and [LC419923]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



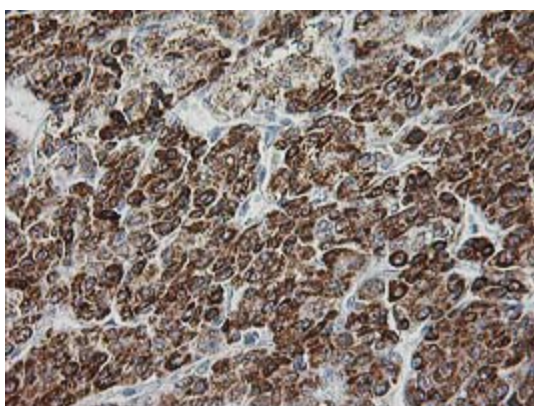
Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-GATM monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).



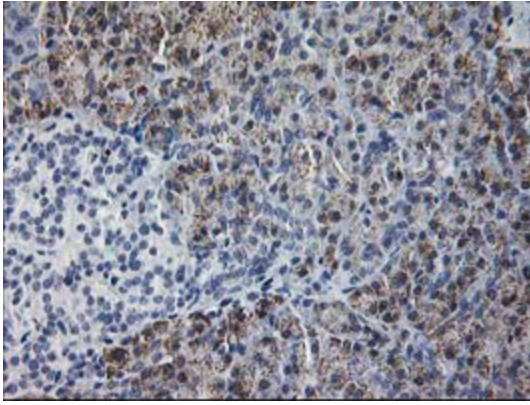
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503147])



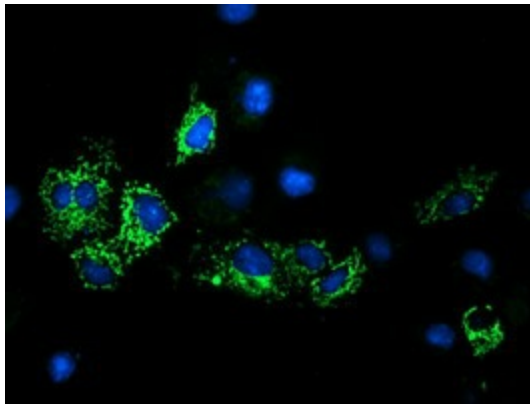
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503147])



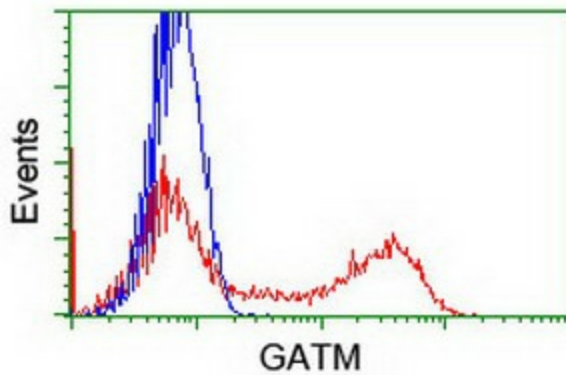
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503147])



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.