

## Product datasheet for **CF503207**

### **GATM Mouse Monoclonal Antibody [Clone ID: OTI1E3]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI1E3
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human GATM(NP_001473) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<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>



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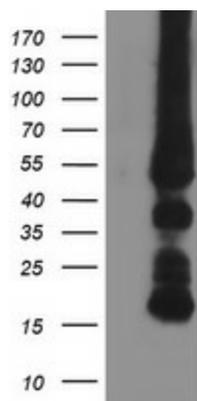
**Background:** This gene encodes a mitochondrial enzyme that belongs to the amidinotransferase family. This enzyme is involved in creatine biosynthesis, whereby it catalyzes the transfer of a guanido group from L-arginine to glycine, resulting in guanidinoacetic acid, the immediate precursor of creatine. 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]

**Synonyms:** AGAT; AT; CCDS3

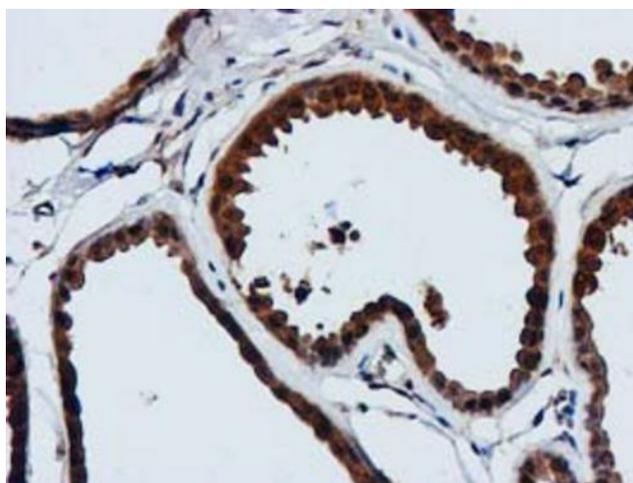
**Protein Families:** Druggable Genome

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

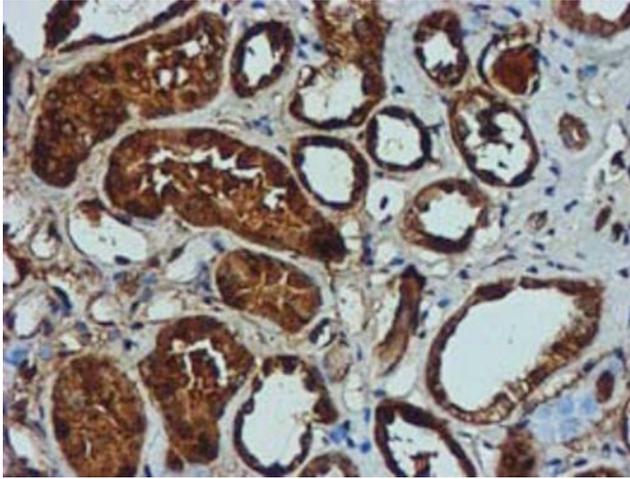
### Product images:



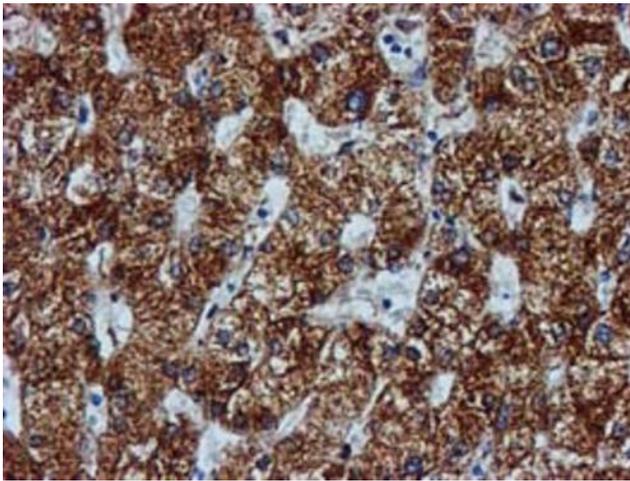
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GATM (Cat# [RC200474], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GATM (Cat# [TA503207]). Positive lysates [LY419923] (100ug) and [LC419923] (20ug) can be purchased separately from OriGene.



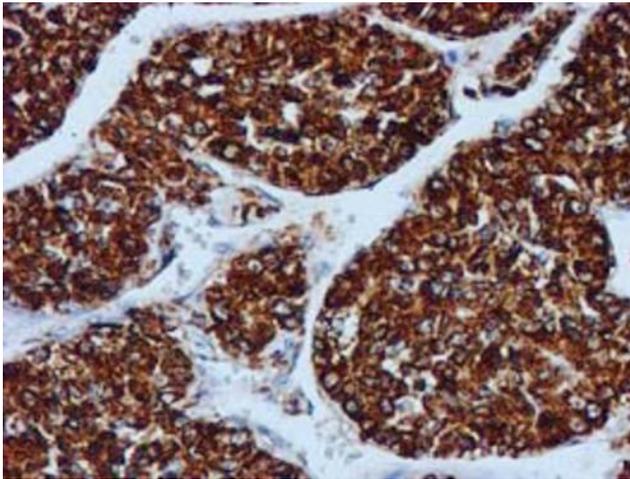
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



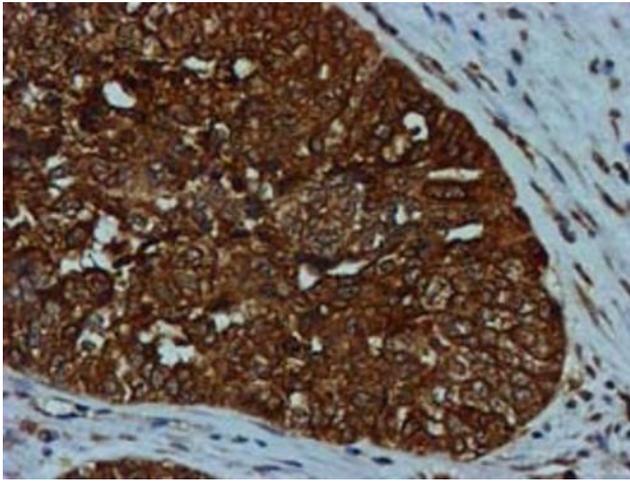
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



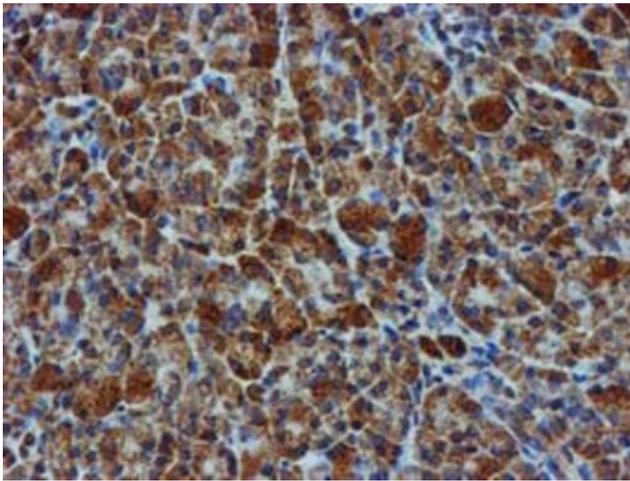
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



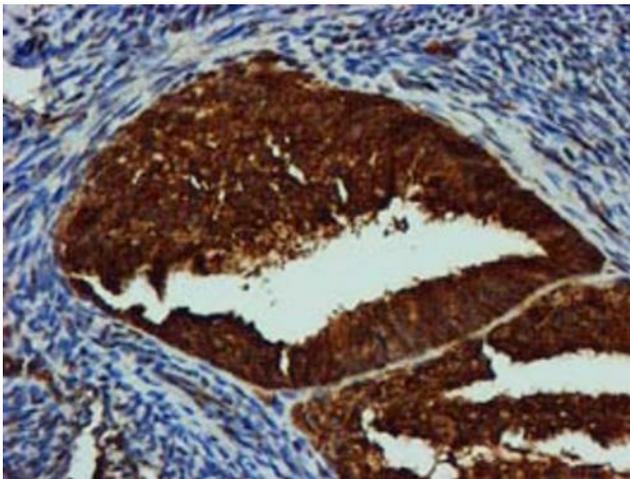
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



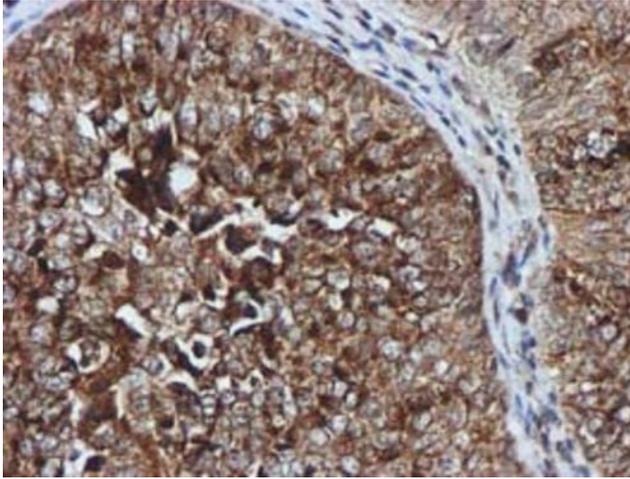
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



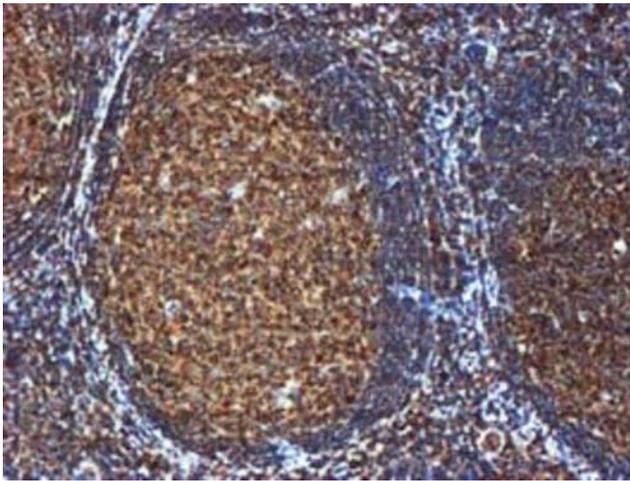
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



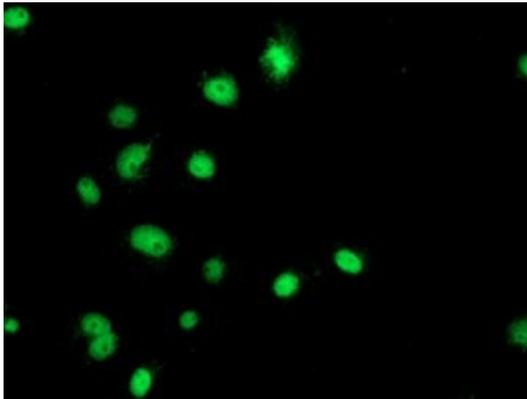
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



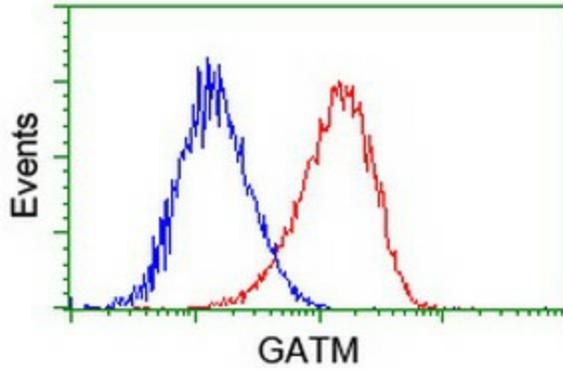
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



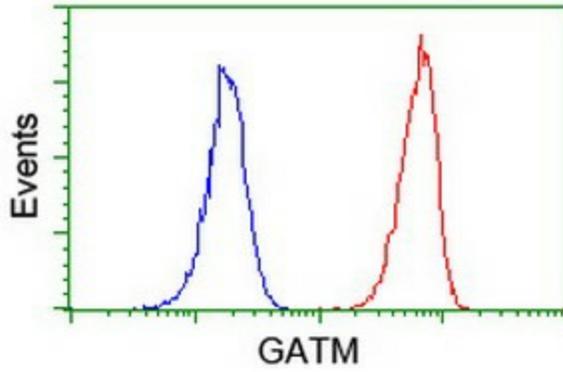
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-GATM mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503207])



Anti-GATM mouse monoclonal antibody ([TA503207]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GATM ([RC200474]).



Flow cytometric Analysis of HeLa cells, using anti-GATM antibody ([TA503207]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-GATM antibody ([TA503207]), (Red), compared to a nonspecific negative control antibody, (Blue).