

For Research Use Only

# GATM Monoclonal antibody

Catalog Number: 68513-1-Ig



## Basic Information

<b>Catalog Number:</b> 68513-1-Ig	<b>GenBank Accession Number:</b> BC004141	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2628	<b>CloneNo.:</b> 1D12G5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P50440	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG1	<b>Full Name:</b> glycine amidinotransferase (L-arginine:glycine amidinotransferase)	
<b>Immunogen Catalog Number:</b> AG3754	<b>Calculated MW:</b> 423 aa, 48 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
human, mouse, rat, pig

**Positive Controls:**  
WB : pig kidney tissue, rat kidney tissue, mouse kidney tissue, pig pancreas tissue, rat pancreas tissue, mouse pancreas tissue

## Background Information

GATM, also known as AGAT, produces ornithine and guanidinoacetate (GAA) from arginine and glycine, and is a key enzyme for creatine synthesis. GATM deficiency in early infancy causes neurodevelopmental delay. GATM is predominantly expressed in kidney and pancreas in adults. Decrease of GATM proteins was observed in proximal tubule damage cases, which links GATM as a general marker for proximal tubule damage. Alternative splicing of GATM generates three isoforms with molecular weights between 44 kDa to 48 kDa.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

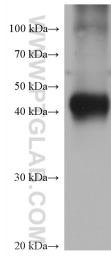
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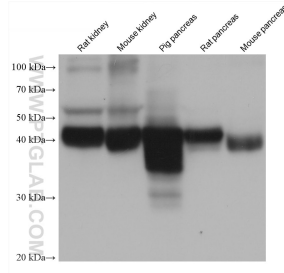
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## Selected Validation Data



pig kidney tissue were subjected to SDS PAGE followed by western blot with 68513-1-Ig (GATM antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 68513-1-Ig (GATM antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.