GATM Monoclonal antibody

Catalog Number:68513-1-Ig

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Antibodies I ELISA kits I Proteins
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Basic Information

Catalog Number:
68513-1-Ig

Size:
1000 ug/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG3754

GenBank Accession Number:
BC004141

GeneID (NCBI):
2628

UNIPROT ID:
P50440

Full Name:
glycine amidinotransferase (L-arginine:glycine amidinotransferase)

Calculated MW:
423 aa, 48 kDa

Observed MW:
48 kDa

Purification Method:
Protein G purification

CloneNo.:
1D12G5

Recommended Dilutions:
WB 1:5000-1:50000

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 GAMT 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℃. 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

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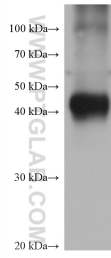
pig kidney tissue were subjected to SDS PAGE followed by western blot with 68513-1-Ig (GATM antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.
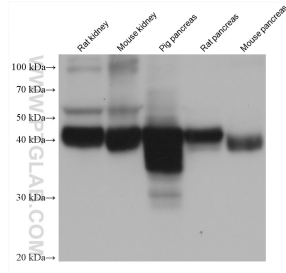
Various lysates were subjected to SDS PAGE followed by western blot with 68513-1-Ig (GATM antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.