

For Research Use Only

GAMT Polyclonal antibody

Catalog Number: 10880-1-AP

9 Publications



Basic Information

Catalog Number:

10880-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1327

GenBank Accession Number:

BC016760

GeneID (NCBI):

2593

UNIPROT ID:

Q14353

Full Name:

guanidinoacetate N-methyltransferase

Calculated MW:

26 kDa

Observed MW:

26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, mouse liver tissue, rat liver tissue, HepG2 cells, SH-SY5Y cells

IHC : human liver tissue, human prostate cancer tissue

Background Information

GAMT converts the latter to creatine with S-adenosylmethionine as the methyl donor. GAMT was induced in human and mouse cells in response to genotoxic and metabolic stress. GAMT was required for p53-dependent upregulation of creatine biosynthesis, fatty acid oxidation, and apoptosis in response to glucose deprivation.

Notable Publications

Author	Pubmed ID	Journal	Application
Ling Huang	35722424	Ann Transl Med	WB
Yi Lu	35276125	Toxicol Appl Pharmacol	WB
Sho Nishikawa	31914311	J Agric Food Chem	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

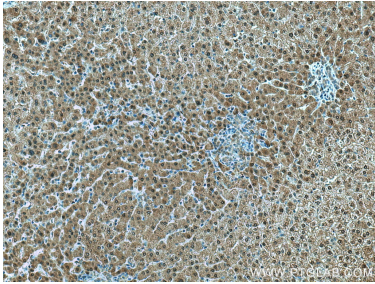
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

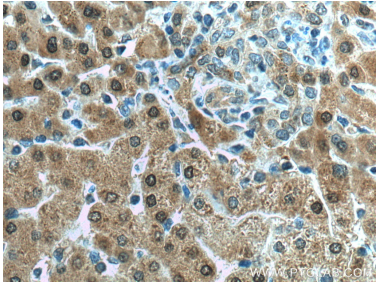
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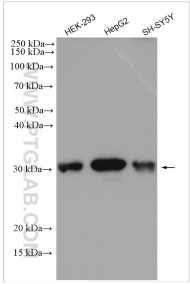
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10880-1-AP (GAMT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10880-1-AP (GAMT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 10880-1-AP (GAMT antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.