

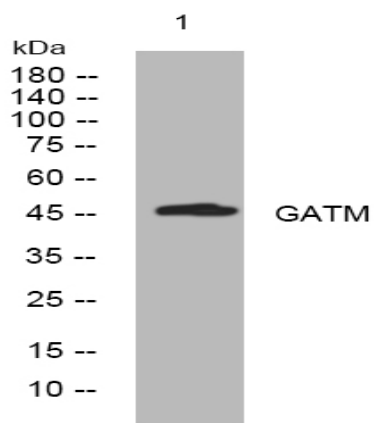
## GATM rabbit pAb

<b>Catalog No :</b>	YT6448
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB
<b>Target :</b>	GATM
<b>Fields :</b>	>>Glycine, serine and threonine metabolism;>>Arginine and proline metabolism;>>Metabolic pathways
<b>Gene Name :</b>	GATM AGAT
<b>Protein Name :</b>	GATM
<b>Human Gene Id :</b>	2628
<b>Human Swiss Prot No :</b>	P50440
<b>Mouse Gene Id :</b>	67092
<b>Mouse Swiss Prot No :</b>	Q9D964
<b>Rat Gene Id :</b>	81660
<b>Rat Swiss Prot No :</b>	P50442
<b>Immunogen :</b>	Synthesized peptide derived from human GATM AA range: 223-273
<b>Specificity :</b>	This antibody detects endogenous levels of GATM at Human/Mouse/Rat
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	47kD
<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, Jul 2008],
<b>Function :</b>	catalytic activity:L-arginine + glycine = L-ornithine + guanidinoacetate.,disease:Defects in GATM are the cause of L-arginine:glycine amidinotransferase deficiency (AGAT deficiency) [MIM:602360]. AGAT deficiency is a defect in creatine metabolism leading to mental retardation.,domain:One chain folds into a compact single domain composed of repeating units, five beta-beta-alpha-beta modules, which surround the central active site.,pathway:Amine and polyamine biosynthesis; creatine biosynthesis; creatine from L-arginine and glycine: step 1/2.,similarity:Belongs to the amidinotransferase family.,subcellular location:The mitochondrial form is found in the intermembrane space probably attached to the outer side of the inner membrane.,subunit:Homodimer. There is an equilibrium between the monomeric and dimeric forms, shifted towards the side of the monomer.,tissue specificity:Kidney.,
<b>Subcellular Location :</b>	[Isoform 1]: Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side. Probably attached to the outer side of the inner membrane.; [Isoform 2]: Cytoplasm.
<b>Expression :</b>	Expressed in brain, heart, kidney, liver, lung, salivary gland and skeletal muscle tissue, with the highest expression in kidney. Biallelically expressed in placenta and fetal tissues.

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## Products Images



Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4° over night