abcam

Product datasheet

Anti-GAMT antibody ab60129

1 Abreviews 2 Images

Overview

Product name	Anti-GAMT antibody
Description	Rabbit polyclonal to GAMT
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, ELISA
Species reactivity	**Reacts with:** Human
	Predicted to work with: Mouse, Rat, Guinea pig, Cow, Pig
Immunogen	Synthetic peptide (Human)
Positive control	Jurkat cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab60129** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 0.25 µg/ml. Detects a band of approximately 26 kDa (predicted molecular weight: 26 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.

Target

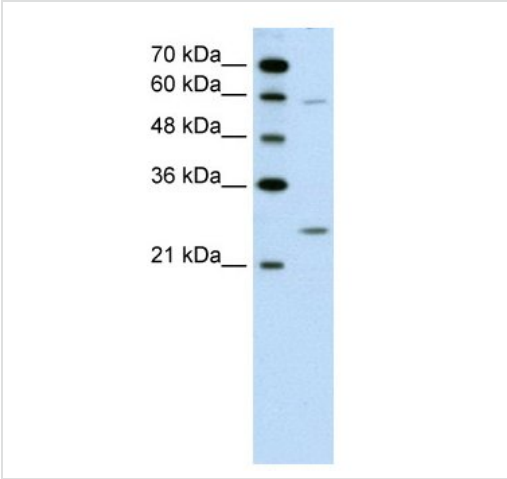
Tissue specificity
Expressed in liver.

Pathway
Amine and polyamine biosynthesis; creatine biosynthesis; creatine from L-arginine and glycine: step 2/2.

Involvement in disease
Defects in GAMT are the cause of guanidinoacetate methyltransferase deficiency (GAMT deficiency) [MIM:612736]. GAMT deficiency is an autosomal recessive disorder characterized by developmental delay/regression, mental retardation, severe disturbance of expressive and cognitive speech, intractable seizures and movement disturbances, severe depletion of creatine/phosphocreatine in the brain, and accumulation of guanidinoacetic acid (GAA) in brain and body fluids.

Sequence similarities
Belongs to the RMT2 methyltransferase family.

Images

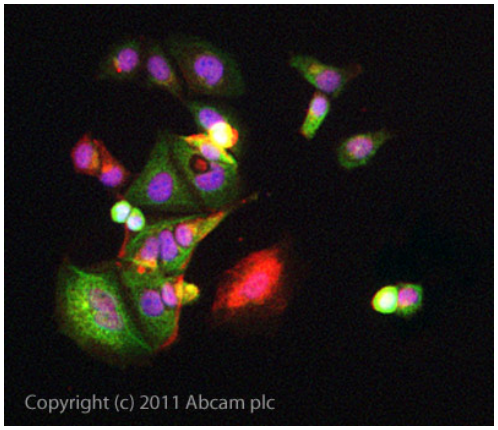


Western blot - Anti-GAMT antibody (ab60129)

Anti-GAMT antibody (ab60129) at 0.25 µg/ml + Jurkat cell lysate at 10 µg

Secondary
HRP conjugated anti-Rabbit IgG at 1/50,000 - 1/100,000 dilution.

Predicted band size: 26 kDa
Observed band size: 26 kDa
Additional bands at: 58 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-GAMT antibody (ab60129)

ICC/IF image of ab60129 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab60129, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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