


## Product datasheet

### Anti-GAMT antibody [EPR6925] ab126736

Recombinant RabMAb

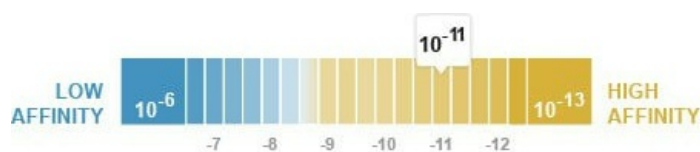
4 Images

#### Overview

Product name	Anti-GAMT antibody [EPR6925]
Description	Rabbit monoclonal [EPR6925] to GAMT
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal liver, HepG2 and SH-SY5Y lysates; Human liver tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K <sub>D</sub> )	K <sub>D</sub> = 7.40 x 10 <sup>-11</sup> M



[Learn more about K<sub>D</sub>](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide
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	Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR6925
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab126736 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

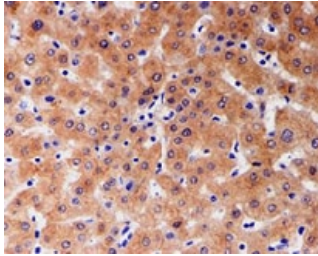
Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 26 kDa (predicted molecular weight: 26 kDa).
<b>IHC-P</b>		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IP.

## Target

<b>Tissue specificity</b>	Expressed in liver.
<b>Pathway</b>	Amine and polyamine biosynthesis; creatine biosynthesis; creatine from L-arginine and glycine: step 2/2.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the RMT2 methyltransferase family.

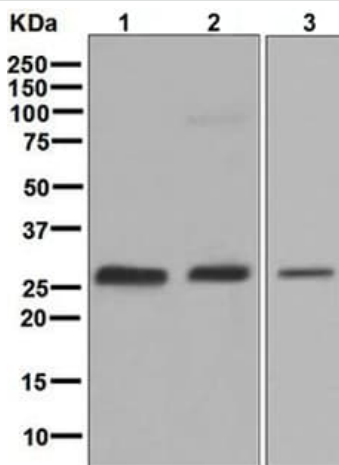
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAMT antibody [EPR6925] (ab126736)

ab126736 at 1/100 dilution, staining GAMT in Formalin-fixed, Paraffin-embedded Human liver tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-GAMT antibody [EPR6925] (ab126736)

**All lanes** : Anti-GAMT antibody [EPR6925] (ab126736) at 1/1000 dilution

**Lane 1** : Human fetal liver Lysate

**Lane 2** : HepG2 lysate

**Lane 3** : SH-SY5Y lysate

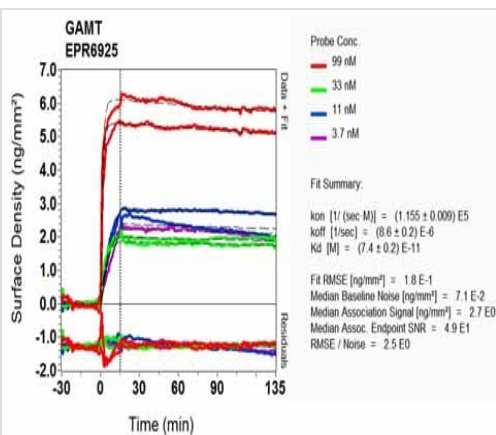
Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat-anti-rabbit HRP at 1/2000 dilution

Developed using the ECL technique.

**Predicted band size:** 26 kDa



OIR-D Scanning - Anti-GAMT antibody [EPR6925] (ab126736)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-GAMT antibody [EPR6925] (ab126736)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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