


## Product datasheet

# Anti-Glycine decarboxylase antibody ab97625

[5 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-Glycine decarboxylase antibody
<b>Description</b>	Rabbit polyclonal to Glycine decarboxylase
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Recombinant fragment corresponding to Human Glycine decarboxylase aa 492-693. Database link: <a href="#">NP_000161</a>
<b>Positive control</b>	HepG2 cells and lysate
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab97625 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
WB		1/500 - 1/3000. Predicted molecular weight: 113 kDa.
ICC/IF		1/100 - 1/200.

## Target

### Function

The glycine cleavage system catalyzes the degradation of glycine. The P protein binds the alpha-amino group of glycine through its pyridoxal phosphate cofactor; CO(2) is released and the remaining methylamine moiety is then transferred to the lipoamide cofactor of the H protein.

### Involvement in disease

Defects in GLDC are a cause of non-ketotic hyperglycinemia (NKH) [MIM:605899]; also known as glycine encephalopathy (GCE). NKH is an autosomal recessive disease characterized by accumulation of a large amount of glycine in body fluid and by severe neurological symptoms.

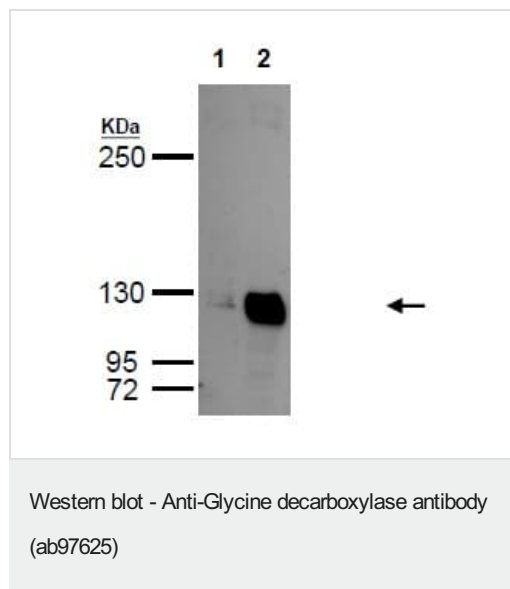
### Sequence similarities

Belongs to the gcvP family.

### Cellular localization

Mitochondrion.

## Images



**All lanes** : Anti-Glycine decarboxylase antibody (ab97625) at 1/500 dilution

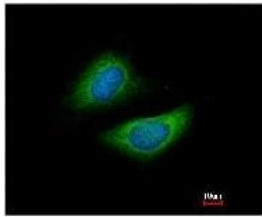
**Lane 1** : HeLa whole cell lysate

**Lane 2** : HepG2 whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 113 kDa

5% SDS-PAGE



ab97625, at a 1/200 dilution, staining Glycine decarboxylase in methanol fixed HeLa cells by Immunofluorescence analysis. Lower image was co-stained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-Glycine decarboxylase antibody (ab97625)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors