


## Product datasheet

# Anti-GAPDH antibody [GA1R] - Loading Control ab125247

★★★★★ [7 Abreviews](#) [116 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-GAPDH antibody [GA1R] - Loading Control
<b>Description</b>	Mouse monoclonal [GA1R] to GAPDH - Loading Control
<b>Host species</b>	Mouse
<b>Specificity</b>	ab125247 recognizes native and denatured forms of GAPDH.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<p><b>Reacts with:</b> Mouse, Rat, Rabbit, Chicken, Hamster, Human, Saccharomyces cerevisiae, Escherichia coli, Spodoptera frugiperda (SF9 cells)</p> <p><b>Predicted to work with:</b> a wide range of other species </p>
<b>Immunogen</b>	Recombinant full length protein corresponding to Rabbit GAPDH.
<b>Positive control</b>	Human, Mouse, Rat, Rabbit, Chicken and Hamster tissue lysates; BL-21 bacteria, Sf9 insect and Saccharomyces cerevisiae cell lysates
<b>General notes</b>	<p>Store at 4°C (add 0.05% NaN3) for several days to weeks.</p> <p>This product was changed from ascites to tissue culture supernatant on 5<sup>th</sup> February 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20

	Preservative: 0.05% Sodium azide
	Constituent: 99% PBS
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	Protein A affinity chromatography from TCS
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	GA1R
<b>Isotype</b>	IgG1

## Applications

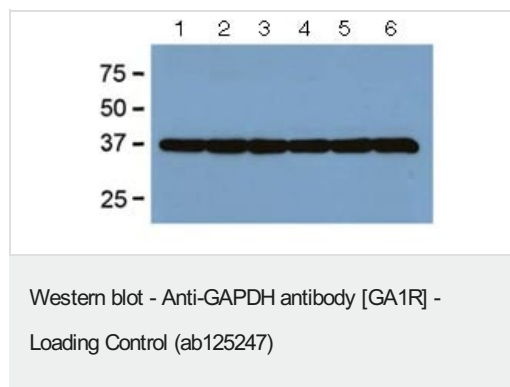
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab125247 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>	★★★★★ (7)	1/1000 - 1/10000. Detects a band of approximately 37 kDa (predicted molecular weight: 36 kDa). with ECL.

## Target

<b>Function</b>	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC (By similarity). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.
<b>Pathway</b>	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.
<b>Sequence similarities</b>	Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.
<b>Post-translational modifications</b>	S-nitrosylation of Cys-152 leads to interaction with SIAH1, followed by translocation to the nucleus. ISGylated.
<b>Cellular localization</b>	Cytoplasm > cytosol. Nucleus. Cytoplasm > perinuclear region. Membrane. Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions.

## Images



**All lanes :** Anti-GAPDH antibody [GA1R] - Loading Control (ab125247) at 1/2000 dilution

**Lane 1 :** Human tissue lysate

**Lane 2 :** Mouse tissue lysate

**Lane 3 :** Rat tissue lysate

**Lane 4 :** Rabbit tissue lysate

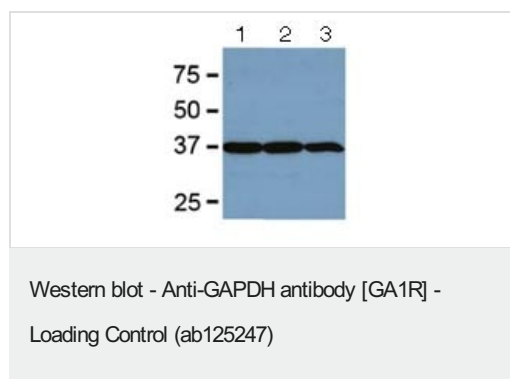
**Lane 5 :** Chicken tissue lysate

**Lane 6 :** Hamster tissue lysate

Lysates/proteins at 5 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 36 kDa



**All lanes :** Anti-GAPDH antibody [GA1R] - Loading Control (ab125247) at 1/2000 dilution

**Lane 1 :** BL21 bacterial lysate

**Lane 2 :** Sf9 insect lysate

**Lane 3 :** Saccharomyces cerevisiae lysate

Lysates/proteins at 5 µg per lane.

Developed using the ECL technique.

**Predicted band size:** 36 kDa

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

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