

Datasheet: HCA272

**BATCH NUMBER 159323**

<b>Description:</b>	HUMAN ANTI GAPDH
<b>Specificity:</b>	GAPDH
<b>Other names:</b>	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD22549_hIgG1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/50 - 1/800

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a human cell line - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml

<b>Immunogen</b>	Recombinant human GAPDH
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04406</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2597</a> GAPDH    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GAPD
<b>Specificity</b>	<p><b>Human anti GAPDH antibody, clone AbD22549_hlgG1</b> recognizes human glyceraldehyde 3-phosphate dehydrogenase (GAPDH), a 335 amino acid multifunctional protein. The main function of GAPDH is to catalyse the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate, in conjunction with inorganic phosphate and nicotinamide adenine dinucleotide (NAD). It is a major glycolytic enzyme within the cytosol and is also involved in a number of intracellular processes, including membrane fusion, microtubule bundling, phosphotransferase, DNA replication and DNA repair. It has also been shown to translocate to the nucleus under a variety of stressors, most of which are associated with oxidative stress, whereby it mediates cell death.</p> <p>GAPDH has been shown to bind to several proteins that are responsible for neurodegenerative diseases, such as amyloid precursor protein and huntingtin (<a href="#">Burke et al. 1996</a>).</p> <p>Since GAPDH is constitutively expressed in almost all tissues at high levels, this antibody is recommended for use as a loading control for western blotting.</p>
<b>Affinity</b>	The monovalent intrinsic affinity of AbD22549 was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized HSPA4
<b>Western Blotting</b>	Anti GAPDH antibody detects a band of approximately 36 kDa in Jurkat cell lysate under reducing conditions
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA272">https://www.bio-rad-antibodies.com/SDS/HCA272</a>

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<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
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<b>Regulatory</b>	For research purposes only
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<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>
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## Related Products

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

[GOAT ANTI HUMAN IgG F\(ab'\)<sub>2</sub>:HRP \(STAR126P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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