

Datasheet: HCA272

Description:	HUMAN ANTI GAPDH
Specificity:	GAPDH
Other names:	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD22549_hlgG1
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Product Form	Human IgG1 antibody selected from the HuCAL phage display library and expressed in a human cell line - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Recombinant human GAPDH
External Database Links	<p>UniProt: P04406 Related reagents</p> <p>Entrez Gene: 2597 GAPDH Related reagents</p>
Synonyms	GAPD
Specificity	<p>Human anti GAPDH antibody, clone AbD22549_hlgG1 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 (Burke et al. 1996).</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>
Affinity	The intrinsic affinity of the monovalent form of Human anti GAPDH antibody, clone AbD22549 is $K_D = 2$ nM as measured by real time, label free molecular interaction analysis on immobilized GAPDH.
Western Blotting	Anti GAPDH antibody detects a band of approximately 36 kDa in Jurkat cell lysate under reducing conditions.
Storage	<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>
Guarantee	12 months from date of despatch
Acknowledgements	This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/HCA272>
10040

Licensed Use

For *in vitro* research purposes only, unless otherwise specified in writing by Bio-Rad.

Regulatory

For research purposes only

Technical Advice

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

Related Products

Recommended Useful Reagents

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

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

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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://www.bio-rad-antibodies.com/datasheets)

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