

Datasheet: HCA272

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| 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.

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| 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 |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.01% Thiomersal |
| Approx. Protein Concentrations | IgG concentration 0.5 mg/ml |
| Immunogen | Recombinant human GAPDH |
| External Database Links | <p>UniProt:</p> <p>P04406 Related reagents</p> <p>Entrez Gene:</p> |

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| 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 <i>et al.</i> 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 monovalent intrinsic affinity of AbD22549 was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized HSPA4 |
| Western Blotting | Anti GAPDH antibody detects a band of approximately 36 kDa in Jurkat cell lysate under reducing conditions |
| Storage | Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. |
| Shelf Life | 12 months from date of despatch |
| Acknowledgements | Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. |
| Health And Safety Information | Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf |
| 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 \(STAR126P\)](#)

'M344922:190124'

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