

## Datasheet: MCA4739P

**BATCH NUMBER 1808**

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| <b>Description:</b>  | MOUSE ANTI RABBIT GAPDH:HRP              |
| <b>Specificity:</b>  | GAPDH                                    |
| <b>Other names:</b>  | GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE |
| <b>Format:</b>       | HRP                                      |
| <b>Product Type:</b> | Monoclonal Antibody                      |
| <b>Clone:</b>        | 6C5                                      |
| <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 |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry             |     |    | ■              |                    |
| Immunohistology - Frozen   | ■   |    |                |                    |
| Immunohistology - Paraffin |     |    | ■              |                    |
| ELISA                      | ■   |    |                |                    |
| Immunoprecipitation        |     |    | ■              |                    |
| Western Blotting           | ■   |    |                | 1/1000 - 1/5000    |
| Immunofluorescence         |     |    | ■              |                    |

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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| <b>Target Species</b>           | Rabbit  |
| <b>Species Cross Reactivity</b> | <p>Reacts with: Human, Pig, Dog, Cat, Rat, Mouse, Xenopus, Tube-nosed Bat, Chicken, Sheep, African green monkey , Crucian Carp</p> <p>Based on sequence similarity, is expected to react with:Vertebrates</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p> |

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| <b>Product Form</b>                       | Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid   |  |  |
| <b>Preparation</b>                        | Purified IgG prepared by affinity chromatography on Protein A from ascites   |  |  |
| <b>Buffer Solution</b>                    | Phosphate buffered saline  |  |  |
| <b>Preservative<br/>Stabilisers</b>       | 0.01% Thiomersal<br>HRP stabiliser   |  |  |
| <b>Approx. Protein<br/>Concentrations</b> | IgG concentration 1.0mg/ml   |  |  |
| <b>Immunogen</b>                          | Rabbit muscle GAPDH.   |  |  |
| <b>External Database<br/>Links</b>        | <p><b>UniProt:</b></p> <p><a href="#">P46406</a>      <a href="#">Related reagents</a></p> <p><a href="#">P04406</a>      <a href="#">Related reagents</a></p> <p><a href="#">P04797</a>      <a href="#">Related reagents</a></p> <p><a href="#">P16858</a>      <a href="#">Related reagents</a></p> <p><a href="#">P00355</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">100009074</a>    GAPDH    <a href="#">Related reagents</a></p> <p><a href="#">2597</a>            GAPDH    <a href="#">Related reagents</a></p> <p><a href="#">396823</a>        GAPDH    <a href="#">Related reagents</a></p> <p><a href="#">14433</a>        Gapdh     <a href="#">Related reagents</a></p> <p><a href="#">24383</a>        Gapdh     <a href="#">Related reagents</a></p>                  |  |  |
| <b>Synonyms</b>                           | Gapd, GAPD   |  |  |
| <b>RRID</b>                               | AB_10863316  |  |  |
| <b>Fusion Partners</b>                    | Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.  |  |  |
| <b>Specificity</b>                        | <p><b>Mouse anti Rabbit GAPDH antibody, clone 6C5</b> recognizes glyceraldehyde-3-phosphate dehydrogenase (GAPDH), a ~36 kDa multifunctional protein whose main function is to catalyse the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate, in conjunction with inorganic phosphate and nicotinamide adenine dinucleotide (NAD). This reaction is an important energy yielding step in carbohydrate metabolism.</p> <p>GAPDH 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. A further report has shown that GAPDH binds to several proteins that are responsible for neurodegenerative diseases, such as amyloid precursor protein and Huntingtin (<a href="#">Hara et al. 2006</a>).</p> |  |  |

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| <b>Western Blotting</b> | MCA4739P is suitable for use as a loading control |
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| <b>References</b> | <ol style="list-style-type: none"><li>1. Latasa, M.U. <i>et al.</i> (2010) Oral methylthioadenosine administration attenuates fibrosis and chronic liver disease progression in Mdr2-/- mice. <a href="#">PLoS One. 5: e15690.</a></li><li>2. Haller, S. <i>et al.</i> (2012) Expression profiles of metabolic enzymes and drug transporters in the liver and along the intestine of beagle dogs. <a href="#">Drug Metab Dispos. 40 (8): 1603-10.</a></li><li>3. Zizza, P. <i>et al.</i> (2012) Phospholipase A2IV<math>\alpha</math> regulates phagocytosis independent of its enzymatic activity. <a href="#">J Biol Chem. 287: 16849-59.</a></li><li>4. Zschemisch, N.H. <i>et al.</i> (2012) Zinc-finger nuclease mediated disruption of Rag1 in the LEW/Ztm rat. <a href="#">BMC Immunol. 13: 60.</a></li><li>5. Agarwal, P. <i>et al.</i> (2013) Tumor suppressor gene p16/INK4A/CDKN2A-dependent regulation into and out of the cell cycle in a spontaneous canine model of breast cancer. <a href="#">J Cell Biochem. 114 (6): 1355-63.</a></li><li>6. Koetzler, R. <i>et al.</i> (2009) Nitric oxide inhibits IFN regulatory factor 1 and nuclear factor-kappaB pathways in rhinovirus-infected epithelial cells. <a href="#">J Allergy Clin Immunol. 124: 551-7.</a></li><li>7. Suzuki, K. <i>et al.</i> (2016) Human Host Defense Cathelicidin Peptide LL-37 Enhances the Lipopolysaccharide Uptake by Liver Sinusoidal Endothelial Cells without Cell Activation. <a href="#">J Immunol. 196 (3): 1338-47.</a></li><li>8. Beaudin, S. &amp; Welsh, J. (2016) 1,25-Dihydroxyvitamin D induces the glutamate transporter SLC1A1 and alters glutamate handling in non-transformed mammary cells. <a href="#">Mol Cell Endocrinol. 424: 34-41.</a></li><li>9. Hao, F. <i>et al.</i> (2017) Inhibition of Caspase-8 does not protect from alcohol-induced liver apoptosis but alleviates alcoholic hepatic steatosis in mice. <a href="#">Cell Death Dis. 8 (10): e3152.</a></li><li>10. Wang, S. <i>et al.</i> (2019) Tumor necrosis factor-inducible gene 6 reprograms hepatic stellate cells into stem-like cells, which ameliorates liver damage in mouse. <a href="#">Biomaterials. 219: 119375.</a></li></ol> |
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| <b>Storage</b> | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use. |
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| <b>Guarantee</b> | 12 months from date of despatch |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10131 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4739P">https://www.bio-rad-antibodies.com/SDS/MCA4739P</a><br>10131 |
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| <b>Regulatory</b> | For research purposes only |
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| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>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<br>Fax: +44 (0)1865 852 739<br>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<br>Fax: +49 (0) 89 8090 95 50<br>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://www.bio-rad-antibodies.com/datasheets)  
'M374214:201023'

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