

Datasheet: MCA4739

**BATCH NUMBER 161665**

<b>Description:</b>	MOUSE ANTI RABBIT 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>	6C5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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	▪			
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.

<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>

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Rabbit muscle GAPDH.
<b>External Database 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_1720065
<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</a></p>

## References

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2. Latasa, M.U. *et al.* (2010) Oral methylthioadenosine administration attenuates fibrosis and chronic liver disease progression in Mdr2<sup>-/-</sup> mice. [PLoS One. 5: e15690.](#)
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7. Beaudin, S. & Welsh, J. (2016) 1,25-Dihydroxyvitamin D induces the glutamate transporter SLC1A1 and alters glutamate handling in non-transformed mammary cells. [Mol Cell Endocrinol. 424: 34-41.](#)
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9. Hao, F. *et al.* (2017) Inhibition of Caspase-8 does not protect from alcohol-induced liver apoptosis but alleviates alcoholic hepatic steatosis in mice. [Cell Death Dis. 8 \(10\): e3152.](#)
10. Wang, S. *et al.* (2019) Tumor necrosis factor-inducible gene 6 reprograms hepatic stellate cells into stem-like cells, which ameliorates liver damage in mouse. [Biomaterials. 219: 119375.](#)
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12. Hihara, F. *et al.* (2022) *In Vitro*. Tumor Cell-Binding Assay to Select High-Binding Antibody and Predict Therapy Response for Personalized <sup>64</sup>Cu-Intraperitoneal Radioimmunotherapy against Peritoneal Dissemination of Pancreatic Cancer: A Feasibility Study. [Int J Mol Sci. 23 \(10\): 5807.](#)
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20. Kim, J. *et al.* (2021) sEVs from tonsil-derived mesenchymal stromal cells alleviate activation of hepatic stellate cells and liver fibrosis through miR-486-5p. [Mol Ther. 29 \(4\): 1471-86.](#)
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**Storage** 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

**Guarantee** 12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4739>  
10040

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)

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