

Datasheet: MCA4739D800

**BATCH NUMBER 161576**

<b>Description:</b>	MOUSE ANTI RABBIT GAPDH:DyLight®800
<b>Specificity:</b>	GAPDH
<b>Other names:</b>	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE
<b>Format:</b>	DyLight®800
<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 - 1/10000

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 conjugated to DyLight®800 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Dylight®800	777	794
<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>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/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_10708981		
<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</p>		

neurodegenerative diseases, such as amyloid precursor protein and Huntingtin ([Hara et al. 2006](#)).

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<b>Western Blotting</b>	MCA4739D800 is suitable for use as a loading control
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## References

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2. Latasa, M.U. *et al.* (2010) Oral methylthioadenosine administration attenuates fibrosis and chronic liver disease progression in Mdr2-/- mice. [PLoS One. 5: e15690.](#)
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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  $^{64}\text{Cu}$ -Intraperitoneal Radioimmunotherapy against Peritoneal Dissemination of Pancreatic Cancer: A Feasibility Study. [Int J Mol Sci. 23 \(10\): 5807.](#)
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15. Paluschinski, M. *et al.* (2023) Uncovering Novel Roles of miR-122 in the Pathophysiology of the Liver: Potential Interaction with NRF1 and E2F4 Signaling. [Cancers \(Basel\). 15 \(16\): 4129.](#)
16. Chen, C. *et al.* (2021) Platelet glycoprotein VI-dependent thrombus stabilization is essential for the intraportal engraftment of pancreatic islets. [Am J Transplant. 21 \(6\): 2079-89.](#)

**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. This product is photosensitive and should be protected from light.

<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	DyLight® is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4739D800">https://www.bio-rad-antibodies.com/SDS/MCA4739D800</a> 10040
<b>Regulatory</b>	For research purposes only

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'M395519:220505'

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