

Datasheet: MCA4739D680 BATCH NUMBER 1808

Description:	MOUSE ANTI RABBIT GAPDH:DyLight®680			
Specificity:	GAPDH			
Other names:	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE			
Format:	DyLight®680			
Product Type:	Monoclonal Antibody			
Clone:	6C5			
Isotype:	lgG1			
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 <u>www.bio-</u>						
	-							
	rad-antibodies.com/proto	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry							
	Immunohistology - Frozen							
	Immunohistology - Paraffin							
	ELISA							
	Immunoprecipitation							
	Western Blotting	-			1/1000 - 1/2500			
	Where this product has not been tested for use in a particular technique this does not							
Target Species	system using appropriate Rabbit	e negative	/positive (controls.				
Species Cross Reactivity	Reacts with: Human, Pig Sheep, African green mo Based on sequence simil N.B. Antibody reactivity a reactivity is derived from personal communications further information.	nkey , Cr larity, is e: and workin testing wi	ucian Car xpected to ng conditi thin our la	p o react with:Vertebrate ons may vary between aboratories, peer-revie	s n species. Cross wed publications or			
Product Form	Purified IgG conjugated t	o DyLight		uid				

Max Ex/Em	FluorophoreExcitation Max (nm)Emission Max (nm)Dylight®680692712					
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)					
Approx. Protein Concentrations	IgG concentration 1.0mg/ml					
Immunogen	Rabbit muscle GAPDH.					
External Database Links	UniProt:P46406Related reagentsP04406Related reagentsP04797Related reagentsP16858Related reagentsP00355Related reagents					
	Entrez Gene:100009074GAPDHRelated reagents2597GAPDHRelated reagents396823GAPDHRelated reagents14433GapdhRelated reagents24383GapdhRelated reagents					
Synonyms	Gapd, GAPD					
RRID	AB_10673953					
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0 myeloma cell line.					
Specificity	 Mouse anti Rabbit GAPDH antibody, clone 6C5 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. 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 (<u>Hara et</u> 					

	<u>al. 2006</u>).
Western Blotting	MCA4739D680 is suitable for use as a loading control
References	 Latasa, M.U. <i>et al.</i> (2010) Oral methylthioadenosine administration attenuates fibrosis and chronic liver disease progression in Mdr2-/- mice. <u>PLoS One. 5: e15690.</u> 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. <u>Drug Metab Dispos. 40 (8): 1603-10.</u> Zizza, P. <i>et al.</i> (2012) Phospholipase A2IVa regulates phagocytosis independent of its enzymatic activity. <u>J Biol Chem. 287: 16849-59.</u> Zschemisch, N.H. <i>et al.</i> (2012) Zinc-finger nuclease mediated disruption of Rag1 in the LEW/Ztm rat. <u>BMC Immunol. 13: 60.</u> 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. <u>J</u> <u>Cell Biochem. 114 (6): 1355-63.</u> Koetzler, R. <i>et al.</i> (2009) Nitric oxide inhibits IFN regulatory factor 1 and nuclear factor- kappaB pathways in rhinovirus-infected epithelial cells. <u>J Allergy Clin Immunol. 124:</u> <u>551-7.</u> 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. <u>J Immunol. 196 (3): 1338-47.</u> Beaudin, S. & Welsh, J. (2016) 1,25-Dihydroxyvitamin D induces the glutamate transporter SLC1A1 and alters glutamate handling in non-transformed mammary cells. <u>Mol Cell Endocrinol. 424: 34-41.</u> 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. <u>Cell Death Dis. 8 (10): e3152.</u> 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. <u>Biomaterials.</u> <u>219: 119375.</u>
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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use
Guarantee	12 months from date of despatch
Acknowledgements	DyLight [®] is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4739D680 10040
Regulatory	For research purposes only

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets								
'M374216:201023'								

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