

Datasheet: MCA2577

Description:	MOUSE ANTI RHIZOPUS ARRHIZUS
Specificity:	RHIZOPUS ARRHIZUS
Other names:	RHIZOPUS ORYZAE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	WSSA-RA-1
lsotype:	IgM
Quantity:	0.25 mg

Product Details

Applications	This product has been reported to work in the following applications. This information is				s. 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				dicated for further
	information. For general protocol recommendations, please visit www.bio-				
	rad-antibodies.com/proto	cols.			
		Vaa	No	Not Determined	Suggested Dilution

	Flow Cytometry Immunohistology - Frozen Immunohistology - Paraffin (1)	Yes	No	Not Determined ■ ■	Suggested Dilution
	Immunohistology - Frozen Immunohistology - Paraffin	•		•	
	Immunohistology - Paraffin	•		•	
	(1)	-			4/50
	× /				1/50
	ELISA	-			
	Immunoprecipitation				
	Western Blotting				
	 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. (1)This product requires protein digestion pre-treatment of paraffin sections e.g. See Jensen <i>et al.</i> (2000) for details. 				
	See <u>Jensen et al. (2000)</u>				
Target Species	Fungal				
Product Form	Purified IgM - liquid				
Preparation	Purified IgM prepared by ammonium sulphate precipitation from tissue culture				
	supernatant.				
	supernatant.				

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgM concentration 1.0mg/ml.
Immunogen	Water-soluble somatic antigens (WSSA) from <i>Rhizopus arrhizus</i> .
RRID	AB_1102839
Fusion Partners	Spleen cells from immunised Balb/c ABom mice were fused with cells of the X63-Ag8.653 myeloma cell line.
Specificity	Mouse anti <i>Rhizopus arrhizus</i> antibody , clone WSSA-RA-1 recognizes <i>Rhizopus arrhizus</i> and other members of the family Mucoraceae including <i>Absidia corymbifera</i> and Rhizomucor pusillus, reacting strongly with the cytoplasm of hyphae and also possibly with the walls and septae, where present.
	 <i>R. arrhizus</i>, an angio-invasive filamentous fungus, is one of the main causative agents of systemic bovine and human zygomycosis, a worldwide and often fatal respiratory disease. Clone WSSA-RA-1 has been successfully used in immunohistochemistry for the specific and consistent <i>in situ</i> diagnosis of systemic bovine zygomycosis, attributed to its possible binding to a highly glycosylated moiety on non-structural components. Clone WSSA-RA-1 does not bind to water-soluble somatic antigens (WSSA) of <i>Aspergillus spp.</i>
Histology Positive Control Tissue	Lymph nodes from R.arrhizus infected cattle.
Western Blotting	Mouse anti <i>Rhizopus arrhizus</i> detects a number diffuse band/s of between ~14-110kDa of <i>Rhizopus arrhizus</i> water-soluble somatic antigens (<u>Jensen <i>et al.</i> 1996</u>).
References	 Jensen, H.E. <i>et al.</i> (1997) The use of immunohistochemistry to improve sensitivity and specificity in the diagnosis of systemic mycoses in patients with haematological malignancies. <u>J Pathol. 181 (1): 100-5.</u> Arendrup, M.C. <i>et al.</i> (2009) Breakthrough <i>Aspergillus fumigatus</i> and <i>Candida albicans</i> double infection during caspofungin treatment: laboratory characteristics and implication for susceptibility testing. <u>Antimicrob Agents Chemother. 53: 1185-93.</u> Yasuda, M. <i>et al</i> (2012) A case of intestinal mucormycosis in a common marmoset (<i>Callithrix jacchus</i>). <u>J Vet Med Sci. 74: 357-9.</u> Nishimura, M. <i>et al.</i> (2014) Zygomycotic mediastinal lymphadenitis in beef cattle with ruminal tympany. <u>J Vet Med Sci. 76 (1): 123-7.</u> Galiza G.J.N. <i>et al.</i> (2014) Usage of three immunohistochemical methods in the detection of aspergillosis and zygomycosis in animals. <u>Pesquisa Veterinária Brasileira. 34</u> (7): 637-42. Suzuta F <i>et al.</i> (2015) Variations in the morphology of <i>Rhizomucor pusillus</i> in granulomatous lesions of a Magellanic penguin (<i>Spheniscus magellanicus</i>). <u>J Vet Med Sci. 77 (8): 1029-31.</u>

	 Ogasawara, F. <i>et al.</i> (2016) Concurrent Fowlpox and Candidiasis Diseases in Backy. Chickens with Unusual Pox Lesions in the Bursa of Fabricius. <u>Avian Dis. 60 (3): 705-8.</u> Haridy, M. <i>et al.</i> (2018) Candida parapsilosis. and Candida tropicalis. infections in an 				
	Okhotsk snailfish (<i>Liparis ochotensis</i> .). <u>J Vet Med Sci. 80 (11): 1676-1680.</u>				
	9. Alves, R.C. <i>et al.</i> (2020) Systemic and Gastrohepatic Mucormycosis in Dogs. <u>J Comp</u> Pathol. 175: 90-94.				
Further Reading	1. Jensen, H.E. <i>et al.</i> (1996) Diagnosis of systemic mycoses by specific immunohistochemical tests. <u>APMIS. 104 (4): 241-58.</u>				
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/MCA2577 10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138)	<u>Alk. Phos.</u>
Goat Anti Mouse IgG IgA IgM (STAR87.) <u>HRP</u>

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M418918:230427'

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