

Datasheet: MCA2577 BATCH NUMBER 1602

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 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-rad-antibodies.com/protocols</u>.

rau-antiboules.com/protoc	5013.			
	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				
Immunohistology - Frozen				
Immunohistology - Paraffin	_			1/50
(1)	-			1/50
ELISA				
Immunoprecipitation				
Western Blotting	-			
necessarily exclude its use in such procedures. Sug a guide only. It is recommended that the user titrate system using appropriate negative/positive controls.				g dilutions are given as for use in their own
Fungal				
	Flow Cytometry Immunohistology - Frozen Immunohistology - Paraffin (1) ELISA Immunoprecipitation Western Blotting Where this product has n necessarily exclude its us a guide only. It is recomm system using appropriate (1) This product requires	Flow CytometryImmunohistology - FrozenImmunohistology - Paraffin (1)ELISAImmunoprecipitationWestern BlottingWhere this product has not been to necessarily exclude its use in such a guide only. It is recommended the system using appropriate negatives (1)This product requires protein	YesNoFlow CytometryImmunohistology - FrozenImmunohistology - Paraffin (1)Immunohistology - Paraffin (1)ELISAImmunoprecipitationWestern BlottingImmunoprecipitationWhere this product has not been tested for necessarily exclude its use in such procedu a guide only. It is recommended that the use system using appropriate negative/positive (1)This product requires protein digestion	YesNoNot DeterminedFlow CytometryImmunohistology - FrozenImmunohistology - Paraffin (1)Immunohistology - Paraffin(1)ImmunoprecipitationELISAImmunoprecipitationWestern BlottingWhere this product has not been tested for use in a particular tech necessarily exclude its use in such procedures. Suggested workin a guide only. It is recommended that the user titrates the product for system using appropriate negative/positive controls.(1)This product requires protein digestion pre-treatment of parafile

Product Form	Purified IgM - liquid
Preparation	Purified IgM prepared by ammonium sulphate precipitation from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgM concentration 1.0mg/ml.
Immunogen	Water-soluble somatic antigens (WSSA) from Rhizopus arrhizus.
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 Aspergillus spp.
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> (1996) Immunohistochemical diagnosis of systemic bovine zygomycosis by murine monoclonal antibodies. <u>Vet Pathol. 33 (2): 176-83.</u> Jensen, H.E. <i>et al.</i> (1996) Diagnosis of systemic mycoses by specific immunohistochemical tests. <u>APMIS. 104 (4): 241-58.</u> 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> Jensen, H.E. <i>et al.</i> (1996) Development of murine monoclonal antibodies for the immunohistochemical diagnosis of systemic bovine aspergillosis. <u>J Vet Diagn Invest. 8 (1): 68-75.</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> 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): 637-642. 8. 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> 9. 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> 10. Ogasawara, F. <i>et al.</i> (2016) Concurrent Fowlpox and Candidiasis Diseases in Backyard Chickens with Unusual Pox Lesions in the Bursa of Fabricius. <u>Avian Dis. 60 (3): 705-8.</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. 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
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...)Alk. Phos.Goat Anti Mouse IgG IgA IgM (STAR87...)HRP

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
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 'M367196:200529'

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