

## Datasheet: OBT2002

Description:	MOUSE ANTI LEISHMANIA LPG (REPEAT EPITOPE)
Specificity:	LEISHMANIA LPG (REPEAT EPITOPE)
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	CA7AE
Isotype:	IgM
Quantity:	0.5 ml

## **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	dations, please visit <u>w</u>	ww.bio-			
	rad-antibodies.com/proto	cols.				
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry			•		
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin					
	ELISA				1/1000	
	Immunofluorescence				1/500 - 1/1000	
	Immunoblotting					
	Where this product has n	ot been te	ested for a	use in a particular tech	nnique this does not	
	necessarily exclude its us	se in such	procedu	res. Suggested workin	g dilutions are given as	
	a guide only. It is recomm system using appropriate			•	or use in their own	
Target Species	Protozoan					
Product Form	Ascites - lyophilized					
Reconstitution	Reconstitute with 0.5 ml o Care should be taken du bottom of the vial. Bio-Ra For long term storage the	ring recon ad recomm	stitution a nend that	the vial is gently mixe	d after reconstitution.	
Preservative Stabilisers	None present					
Immunogen	Heat killed <i>Leishmania d</i>	onovani pi	romastigo	otes.		

RRID	AB_619110
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the murine SP2/0 myeloma cell line.
Specificity	<b>Mouse anti</b> <i>Leishmania</i> <b>lipophosphoglycan antibody, clone CA7AE</b> recognizes lipophosphoglycan (LPG) the major cell surface glycoconjugate of <i>Leishmania</i> parasites. Mouse anti <i>Leishmania</i> lipophosphoglycan antibody, clone CA7AE recognizes the repeat carbohydrate epitope of most species of <i>Leishmania</i> LPG. The epitope is also found on the excreted acid phosphatase of <i>Leishmania</i> and is expressed on the surface of <i>Leishmania</i> infected macrophages (Tolson <i>et al.</i> 1990).
	Mouse anti <i>Leishmania</i> lipophosphoglycan antibody, clone CA7AE recognizes the promastigotes of <i>Leishmania donovani</i> but not those of the related species <i>L. tropica</i> (Jaffe and Sarfstein 1987, Sundar <i>et al.</i> 2001). Mouse anti <i>Leishmania</i> lipophosphoglycan antibody, clone CA7AE does however recognize a broad range of <i>L. donovani</i> and <i>L. major</i> strains and related species including <i>L. infantum</i> , <i>L. m. mexicana</i> , <i>L. aethiopica</i> and <i>L. b. panamensis</i> (Tolson <i>et al.</i> 1994).
References	<ol> <li>Sundar, S. <i>et al.</i> (2001) Resistance to treatment in Kala-azar: speciation of isolates from northeast India. Am J Trop Med Hyg. 65: 193-6.</li> <li>Tolson, D.L. <i>et al.</i> (1990) Expression of a repeating phosphorylated disaccharide lipophosphoglycan epitope on the surface of macrophages infected with <i>Leishmania donovani</i>. Infect Immun. 58: 3500-7.</li> <li>Butcher, B.A. <i>et al.</i> (1996) Deficiency in beta 1,3-galactosyltransferase of a <i>Leishmania major</i> lipophosphoglycan mutant adversely influences the <i>Leishmania</i>-sand fly interaction. J Biol Chem. 271: 20573-9.</li> <li>Goyard, S. <i>et al.</i> (2003) An <i>in vitro</i> system for developmental and genetic studies of <i>Leishmania donovani</i> phosphoglycans Mol Biochem Parasitol. 130: 31-42.</li> <li>Soares, R.P. <i>et al.</i> (2004) <i>Leishmania tropica</i>: intraspecific polymorphisms in lipophosphoglycan correlate with transmission by different <i>Phlebotomus</i> species. Exp Parasitol. 107: 105-14.</li> <li>Amprey, J.L. <i>et al.</i> (2004) Inhibition of CD1 expression in human dendritic cells during intracellular infection with <i>Leishmania donovani</i>. Infect Immun. 72: 589-92.</li> <li>Coelho-Finamore, J.M. <i>et al.</i> (2011) <i>Leishmania infantum</i>: Lipophosphoglycan intraspecific variation and interaction with vertebrate and invertebrate hosts. Int J Parasitol. 41: 333-42.</li> <li>Capul, A.A. <i>et al.</i> (2007) Two Functionally Divergent UDP-Gal Nucleotide Sugar Transporters Participate in Phosphoglycan Synthesis in <i>Leishmania major</i> J Biol Chem. 282: 14006-17.</li> <li>Vinet, A.F. <i>et al.</i> (2023) miR-148a regulation interferes in inflammatory cytokine and parasitic load in canine leishmaniasis. PLoS Negl Trop Dis. 17 (1): e0011039.</li> <li>Costa, S.F. <i>et al.</i> (2024) MicroRNA-194 regulates parasitic load and IL-1β-dependent nitric oxide production in the peripheral blood mononuclear cells of dogs with leishmaniasis. PLoS Negl Trop Dis. 18 (1): e0011789.</li> </ol>

Storage		<ul> <li>This product is shipped at ambient temperature.</li> <li>Prior to reconstitution store at +4°C.</li> <li>After reconstitution store at -20°C.</li> <li>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.</li> </ul>						
Guarante	e	12 months from date of despatch						
Health And Safety       Material Safety Datasheet documentation #10484 available         Information       https://www.bio-rad-antibodies.com/SDS/OBT2002         10484						at:		
Regulatory For research purp			rch purpose:	s only				
orth & South nerica	Tel: +1 800 265 73 Fax: +1 919 878 3		Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50		
	Email: antibody_sa	ales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio	o-rad.com	Email: antibody_sales_de@bio-rad.co		
To find a b	atch/lot specific	datasheet	for this produ	ict, please use our online 'M441547:250523'	search tool at	: bio-rad-antibodies.com/datashee		
				Printed on 23 May 2025				

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