

Datasheet: OBT2002

BATCH NUMBER 159047

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 protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	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 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.

Target Species	Protozoan
Product Form	Ascites - lyophilised
Reconstitution	Reconstitute with 0.5 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
Preservative Stabilisers	None present
Immunogen	Heat killed <i>Leishmania donovani</i> promastigotes.

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	<p>Mouse anti <i>Leishmania</i> lipophosphoglycan antibody, clone CA7AE 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 et al. 1990).</p> <p>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 et al. 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 et al. 1994).</p>
References	<ol style="list-style-type: none"> Sundar, S. et al. (2001) Resistance to treatment in Kala-azar: speciation of isolates from northeast India. Am J Trop Med Hyg. 65: 193-6. Tolson, D.L. et al. (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. Butcher, B.A. et al. (1996) Deficiency in beta1,3-galactosyltransferase of a <i>Leishmania major</i> lipophosphoglycan mutant adversely influences the <i>Leishmania</i>-sand fly interaction. J Biol Chem. 271: 20573-9. Goyard, S. et al. (2003) An <i>in vitro</i> system for developmental and genetic studies of <i>Leishmania donovani</i> phosphoglycans Mol Biochem Parasitol. 130: 31-42. Soares, R.P. et al. (2004) <i>Leishmania tropica</i>: intraspecific polymorphisms in lipophosphoglycan correlate with transmission by different <i>Phlebotomus</i> species. Exp Parasitol. 107: 105-14. Amprey, J.L. et al. (2004) Inhibition of CD1 expression in human dendritic cells during intracellular infection with <i>Leishmania donovani</i>. Infect Immun. 72: 589-92. Coelho-Finamore, J.M. et al. (2011) <i>Leishmania infantum</i>: Lipophosphoglycan intraspecific variation and interaction with vertebrate and invertebrate hosts. Int J Parasitol. 41: 333-42. Capul, A.A. et al. (2007) Two Functionally Divergent UDP-Gal Nucleotide Sugar Transporters Participate in Phosphoglycan Synthesis in <i>Leishmania major</i> J Biol Chem. 282: 14006-17. Vinet, A.F. et al. (2009) The <i>Leishmania donovani</i> lipophosphoglycan excludes the vesicular proton-ATPase from phagosomes by impairing the recruitment of synaptotagmin V. PLoS Pathog. 5: e1000628.
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at -20°C.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored</p>

undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10194 available at: https://www.bio-rad-antibodies.com/SDS/OBT2002 10194
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Regulatory	For research purposes only
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M369445:200529'

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