Datasheet: MCA2718

Description:	MOUSE ANTI CHLAMYDIA LPS
Specificity:	CHLAMYDIA LPS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CF 6J12
Isotype:	IgG2a
Quantity:	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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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

Bacterial

Species Cross Reactivity

Reacts with: Chlamydophila sp.
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Elementary bodies from *C. trachomatis* strain SAF_2.
RRID	AB_915244
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the NS0/U mouse myeloma cell line.
Specificity	**Mouse anti Chlamydia LPS antibody, clone CF 6J12** recognizes a genus specific epitope within *Chlamydia* lipopolysaccharide (LPS). LPS is a common feature of the outer envelope of gram negative bacteria, which acts as a potent endotoxin, triggering an innate immune response. Whilst the LPS of *Chlamydia trachomatis* does evoke an immune response, it displays only weak endotoxic activity when compared to that of other bacteria such as *Salmonella minnesota* or *Neisseria gonorrhoeae* (Ingalls *et al*. 1995).
References	1. Campbell, S. *et al*. (1994) Lipopolysaccharide in cells infected by *Chlamydia trachomatis*. Microbiology.140: 1995-2002. 2. Dlugosz, A. *et al.* (2010) *Chlamydia trachomatis.* antigens in enteroendocrine cells and macrophages of the small bowel in patients with severe irritable bowel syndrome. BMC Gastroenterol. 10: 19. 3. Borth, N. *et al.* (2011) Functional interaction between type III-secreted protein IncA of *Chlamydophila psittaci.* and human G3BP1. PLoS One. 6 (1): e16692. 4. Xia, M. *et al.* (2013) Immunization of *Chlamydia pneumoniae.* (Cpn)-infected Apob(tm2Sgy)Ldlr(tm1Her)/J mice with a combined peptide of Cpn significantly reduces atherosclerotic lesion development. PLoS One. 8 (12): e81056. 5. Xia M *et al.* (2013) Immunization of *Chlamydia pneumoniae* (Cpn)-infected Apob(tm2Sgy)Ldlr(tm1Her)/J mice with a combined peptide of Cpn significantly reduces atherosclerotic lesion development. PLoS One. 8 (12): e81056. 6. Mosolygó, T. *et al.* (2019) Selenocompounds as Novel Antibacterial Agents and Bacterial Efflux Pump Inhibitors. Molecules. 24(8):1487. 7. Kókai, D. *et al.* (2021) Ambroxol Treatment Suppresses the Proliferation of *Chlamydia pneumoniae* in Murine Lungs. Microorganisms. 9 (4): 880.
Further Reading	1. Ingalls, R.R. *et al.* (1995) The inflammatory cytokine response to *Chlamydia trachomatis* infection is endotoxin mediated. Infect Immun. 63 (8): 3125-30.
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/MCA2718 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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