Datasheet: 7263-1006

BATCH NUMBER 150352

Description:	MOUSE ANTI PEPTIDOGLYCAN
Specificity:	PEPTIDOGLYCAN
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	3F6B3 (10H6)
Isotype:	IgG1
Quantity:	0.1 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
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			
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 the appropriate negative/positive controls.

(1)**Treatment with strong acid, for Gram positive bacteria, or with a detergent, such as SDS, for Gram-negative bacteria may be necessary to expose the epitope.**

Target Species	Bacterial
Product Form	Ascitic Fluid - raw
Preservative Stabilisers	None present.
Immunogen	This antibody was raised against insoluble peptidoglycan obtained by TCA-heat and ethanol extraction of *Streptococcus mutans* BHT cells.

RRID	AB_620617
Specificity	**Mouse anti peptidoglycan antibody, clone 3F6B3** recognizes the 3D polymer complex structure of peptidoglycan (PG). In a competitive immunoassay format, several compounds were found to be ineffective as inhibitors; muramyldipeptide, N-acetylglucosamine, chitin and acid hydrolyzed chitin. The epitope appears to consist of discontinuous glycan and/or amino acid residues.
References	1. Miklossy, J. *et al.* (2004) *Borrelia burgdorferi* persists in the brain in chronic lyme neuroborreliosis and may be associated with Alzheimer disease. J. Alzheimer's Dis. 6: 639-49. 2. Wu, L. *et al.* (2007) Bacterial peptidoglycan breaks down intestinal tolerance via mast cell activation: the role of TLR2 and NOD2. Immunol Cell Biol. 85: 538-45. 3. Rennemeier, C. *et al.* (2007) Thrombospondin-1 promotes cellular adherence of gram-positive pathogens via recognition of peptidoglycan. FASEB J. 21 (12): 3118-32. 4. Schweitzer, M.H. *et al.* (2016) Testing the Hypothesis of Biofilm as a Source for Soft Tissue and Cell-Like Structures Preserved in Dinosaur Bone. PLoS One. 11 (2): e0150238. 5. Miklossy J *et al.* (2008) Persisting atypical and cystic forms of *Borrelia burgdorferi* and local inflammation in Lyme neuroborreliosis. J Neuroinflammation. 5: 40. 6. Robertson, J. *et al.* (2016) Intestinal APCs of the endogenous nanomineral pathway fail to express PD-L1 in Crohn's disease. Sci Rep. 6: 26747. 7. Miklossy, J. (2016) Bacterial Amyloid and DNA are Important Constituents of Senile Plaques: Further Evidence of the Spirochetal and Biofilm Nature of Senile Plaques. J Alzheimers Dis. 53 (4): 1459-73. 8. Miklossy, J. *et al.* (2008) Type 2 Diabetes: Local Inflammation and Direct Effect of Bacterial Toxic Components The Open Pathology Journal. 2 (1): 86-95. 9. Van Gerven, N. *et al.* (2014) Secretion and functional display of fusion proteins through the curli biogenesis pathway. Mol Microbiol. 91 (5): 1022-35. 10. Moon, M.S. *et al.* (2019) Bacterial Translocation and Host Immune Activation in Chronic Hepatitis C Infection. Open Forum Infect Dis. 6 (7) [Epub ahead of print]. 11. Lindgren, J. *et al.* (2017) Biochemistry and adaptive colouration of an exceptionally preserved juvenile fossil sea turtle. Sci Rep. 7 (1): 13324.
Storage	Store at -20^{o}C only. 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 #10194 available at: https://www.bio-rad-antibodies.com/SDS/7263-1006 10194
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

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