



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti-PEPTIDOGLYCAN

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-02112

**Species**  
Bacterial

**Isotype**  
IgG1

### Preparation

**Immunogen:** This antibody was raised against insoluble peptidoglycan obtained by TCA-heat and ethanol extraction of *Streptococcus mutans* BHT cells.

### Specificity

DS-MB-02112 is specific for the 3D polymer complex structure of peptidoglycan (PG). In a competitive immunoassay format, several compounds were found to be ineffective as inhibitors; muramyl dipeptide, N-acetylglucosamine, chitin and acid hydrolyzed chitin. The epitope appears to consist of discontinuous glycan and/or amino acid residues and has not been fully defined.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Ascitic Fluid - raw

**Preservative Stabilizers:** None present.

### Applications

Table Summary of antibody applications and working conditions

| Options<br>Functions             | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|----------------------------------|-----|----|----------------|--|
| Immunohistology -<br>Frozen      | •   |    |                |  |
| Immunohistology -<br>Paraffin(1) | •   |    |                |  |
| Immunohistology -<br>Resin       |     |    | •              |  |
| ELISA                            | •   |    |                |  |
| Western Blotting                 | •   |    |                |  |

**Note:** Other applications are not tested yet. Optimal dilutions should be determined.

(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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Secondary Antibody Applications

| <div>Options</div> <div>Functions</div> | YES | NO | Not determined | Recommended<br>Work dilution or<br>concentration |
|---|-----|----|----------------|--|
| Immunoassay (ELISA,<br>Western blot)    | •   |    |                | 1:5,000-1:10,000                                 |

### Storage

Store at -20°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.

**Shelf Life:** 18 months from date of dispatch.

### 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: 639-649.
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.

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