



RayBiotech, Inc.

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Certificate of Analysis and Datasheet

Rat anti-Mouse TLR4/MD-2

with HRP-conjugated secondary antibody

Catalog No.

DS-MB-03969

Species

Viral

Isotype

IgG2a

Preparation

- **Immunogen:** Ba/F3 cell line transfected with mouse TLR4 and MD-2.

Specificity

- DS-MB-03969 recognizes mouse toll-like receptor 4 (TLR4), when associated with MD-2 and co-precipitates MD-2 with TLR4. DS-MB-03969 does not detect TLR4 alone. TLR4 mediates the innate immune response to bacterial lipopolysaccharide through co-operation with MD-2 and CD14.
- DS-MB-03969 has been reported to block LPS-induced cytokine production.
- DS-MB-03969 binds to an epitope of TLR4/MD-2 that is lost after LPS stimulation

Formulation

- **Product Type:** Monoclonal Antibody
- **Product Form:** Purified IgG - liquid
- **Preservative Stabilizers:** 0.09% Sodium Azide
- **Buffer Solution:** Phosphate buffered saline
- **Approx. Protein Concentrations:** IgG concentration 0.5 mg/ml

Storage

- Store at 4°C or at -20°C if preferred.
- 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 shipment.

Reference

- Akashi, S. et al. (2000) Cell surface expression and lipopolysaccharide signaling via the toll-like receptor 4-MD-2 complex on mouse peritoneal macrophages. J. Immunol. 164: 3471 - 3475.

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



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- Akashi, S. et al. (2003) Lipopolysaccharide interaction with cell surface toll-like receptor 4-MD-2: Higher affinity than that with MD-2 or CD14. J. Exp. Med. 198:1035-1042.

Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA				
Western Blotting			•	
Immunohistology Frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Flow Cytometry	•			1:10 – 1:50
Immunoprecipitation	•			
Immunofluorescence			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
Use 10 ul of the suggested working dilution to label 10^6 cells in 100 ul. Method sheets are available on request.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blotting)	•			1:5,000 – 1:10,000

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