



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### Certificate of Analysis and Data Sheet

## Mouse Anti Plasmodium Falciparum

With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-02134

**Target Species**  
Protozoan

**Isotype**  
IgG1

### Preparation

**Immunogen:** *Plasmodium falciparum* Histidine rich protein 2.

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

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline pH7.2

**Preservative & Stabilizers:** 0.09% Sodium Azide

**Approx. Protein Concentrations:** IgG concentration 0.1mg/ml

### Specificity

DS-MB-02134 recognizes *Plasmodium falciparum* histidine rich protein-2, a 33 kDa member of the histidine rich protein family found in the malaria parasite. Histidine rich protein-2 is secreted by *Plasmodium falciparum* into the host erythrocyte cytosol and is expressed on the cell membrane or associated with the cytoskeleton of infected erythrocytes. Histidine rich protein-2 is thought to polymerise free haem to form haemozoin. It is also thought to play a role in the polymerisation of ferriprotoporphyrin IX, a by-product of hemoglobin degradation.

### Storage

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

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

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



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### Applications

Table Summary of antibody applications and working conditions

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
ELISA	▪			1:20 - 1:200
Western Blot	▪			
Flow Cytometry			▪	
Immunofluorescence			▪	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

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