

**Monoclonal Antibody IIC5B-10-1 Anti-*Plasmodium falciparum* 48/45-kDa Gamete Surface Protein (Pfs48/45) (produced *in vitro*)**

**Catalog No. MRA-316A**

**Product Description:** Antibody Class: IgG2a

Monoclonal antibody prepared against the 48/45-kDa gamete surface protein of *Plasmodium falciparum* (*P. falciparum*; mixed strains) was purified using protein G affinity chromatography from supernatants obtained from mouse IIC5B-10-1 hybridoma.

**Lot<sup>1</sup>: 64091725**

**Manufacturing Date: 27APR2016**

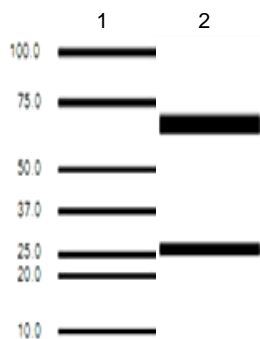
TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	IgG2a	IgG2a
Experion Pro260 Analysis	Correct molecular weight (MW) for heavy and light chains Report results	Correct molecular weight (MW) for heavy and light chains (Figure 1) 99.7% pure
Concentration by Spectrophotometer at OD <sub>280</sub>	~ 1.0 mg/mL	1.3 mg per mL
Functional Activity Western blot analysis with <i>P. falciparum</i> 3D7 (GL clone) (BEI Resources MRA-1001) <sup>2</sup> Immunofluorescence assay with <i>P. falciparum</i> 3D7 (GL clone) (BEI Resources MRA-1001) <sup>3</sup>	Reactive  Reactive	Reactive (45-48 kDa; Figure 2)  Reactive; fluorescence observed (Figure 3)
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

<sup>1</sup>Produced from MR-MRA-316 lot 64091724 adapted to serum-free media

<sup>2</sup>Using a 1:500 dilution of MRA-316A as primary antibody and a 1:10000 dilution of goat anti-mouse IRDye<sup>®</sup> 800CW conjugate (LiCor<sup>®</sup> 925-32210) as secondary antibody

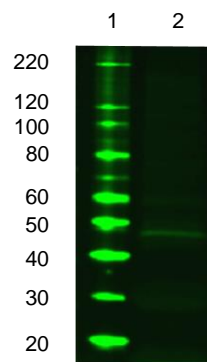
<sup>3</sup>Specific labeling of *P. falciparum* smears with MRA-316A with FITC and DAPI was observed following paraformaldehyde fixation.

**Figure 1: Experion Pro260 Analysis**



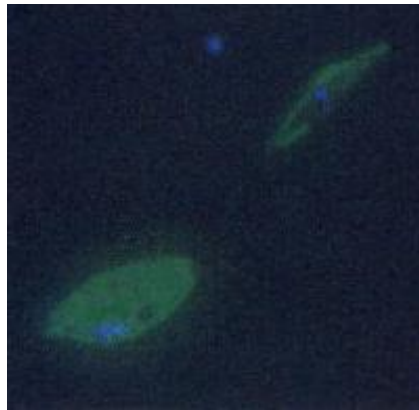
Lane 1: MW Markers (kDa)  
Lane 2: MRA-316A

**Figure 2: Functional Activity by Western Blot**



Lane 1: MW Markers (kDa)  
Lane 2: MRA-316A

Figure 3: *P. falciparum* Immunofluorescence Assay



Date: 01 NOV 2016

Signature:   
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