### **Certificate of Analysis for MRA-316A**

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

#### Catalog No. MRA-316A

This reagent is the tangible property of the U.S. Government.

#### **Product Description:**

Antibody Class: IgG2a

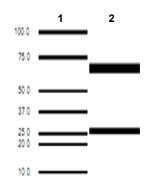
Monoclonal antibody prepared against the 48/45-kDa gamete surface protein of *Plasmodium falciparum* (*P. falciparum*) (mixed strains) was purified using protein G affinity chromatography from supernatants obtained from mouse IIC5B-10-1 hybridoma. MRA-316A was produced from BEI Resources seed lot 64091724 adapted to serum-free media.

Lot: 64091725 Manufacture Date: 27APR2016

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	IgG2a	lgG2aк
Agilent Protein 230 Analysis	Correct molecular weight (MW) for heavy and light chains; Report purity	Correct molecular weight (MW) for heavy and light chains (Figure 1); 99.7% pure
Concentration by Spectrophotometer at OD <sub>280</sub>	~ 1 mg per mL	1.3 mg per mL
Functional Activity		
Western blot analysis with <i>P. falciparum</i> 3D7 (GL clone) (BEI Resources MRA-1001) <sup>1</sup>	Reactive	Reactive (45-48 kDa; Figure 2)
Immunofluorescence assay with <i>P. falciparum</i> 3D7 (GL clone) (BEI Resources MRA-1001) <sup>2</sup>	Reactive	Reactive; fluorescence observed (Figure 3)
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

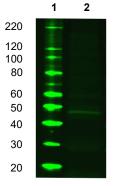
<sup>&</sup>lt;sup>1</sup>Using a 1:500 dilution of MRA-316A as primary antibody and a 1:10000 dilution of goat anti-mouse IRDye® 800CW conjugate (LiCor® 925-32210) as secondary antibody

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

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

<sup>&</sup>lt;sup>2</sup>Specific labeling of *P. falciparum* smears with MRA-316A with FITC and DAPI was observed following paraformaldehyde fixation.



## **Certificate of Analysis for MRA-316A**

Figure 3: P. falciparum Immunofluorescence Assay



/Sonia Bjorum Brower/ Sonia Bjorum Brower

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Technical Manager or designee, ATCC Federal Solutions

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BEI Resources www.beiresources.org E-mail: <a href="mailto:contact@beiresources.org">contact@beiresources.org</a>
Tel: 800-359-7370