

# Certificate of Analysis for MRA-480A

## Monoclonal Antibody N3-1D7 Anti-*Plasmodium falciparum* Apical Membrane Antigen 1 (AMA1) (produced *in vitro*)

### Catalog No. MRA-480A

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

### Product Description: Antibody Class: IgG2a

Monoclonal antibody prepared against the apical membrane antigen 1 (AMA1) of *Plasmodium falciparum* (*P. falciparum*) was purified from supernatants obtained from mouse N3-1D7 hybridoma.

Lot<sup>1</sup>: 3361175

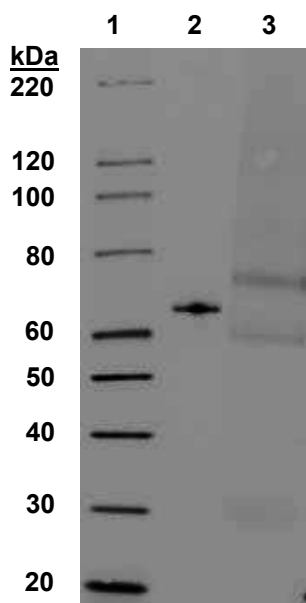
Manufacturing Date: 07AUG2003

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	IgG2a	IgG2a
Concentration by Spectrophotometer at OD <sub>280</sub>	~ 1 mg per mL	1 mg per mL
Functional Activity Western blot analysis with <i>P. falciparum</i> 3D7 crude extract or recombinant AMA1 protein <sup>1</sup> Immunofluorescence assay with <i>P. falciparum</i> schizont stage <sup>2</sup>	Reactive  Reactive	Reactive (Figure 1)  Reactive; fluorescence observed

<sup>1</sup>Using a 1:250 dilution of MRA-480A as primary antibody and a 1:500 dilution of goat anti-mouse IgG HRP conjugate as secondary antibody, with an ECL<sup>™</sup> Prime detection kit (GE Healthcare)

<sup>2</sup>Specific labeling of *P. falciparum* smears with MRA-480A was observed following paraformaldehyde fixation.

Figure 1: Western Blot Analysis



Lane 1: MagicMark<sup>™</sup> XP Western Protein Standard (Invitrogen<sup>™</sup>)

Lane 2: Recombinant AMA1 L32 Protein (NIAID)

Lane 3: *P. falciparum* 3D7 (BEI Resources MRA-102), crude mixed blood stage protein extract

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/Heather Couch/

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25 SEP 2018

Program Manager or designee, ATCC Federal Solutions

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