

Product Information Sheet for MRA-878A

Monoclonal Anti-*Plasmodium falciparum*, Strain 3D7 230 kDa Gamete Surface Protein (Pfs 230), Clone 1B3 (produced *in vitro*)

Catalog No. MRA-878A

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

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak
Mouse monoclonal antibody prepared against the 230 kDa gamete surface protein of *Plasmodium falciparum* (*P. falciparum*), strain 3D7 was purified from 1B3 hybridoma supernatant by protein G affinity chromatography. *P. falciparum*, strain 3D7 (available as BEI Resources MRA-102) was cloned from the NF54 strain (available as BEI Resources MRA-1000) by limiting dilution. The Pfs 230 monoclonal antibody is known to block the transmission of *P. falciparum* to mosquitoes by blocking the development of the parasite in the midgut after a blood meal.¹

Material Provided:

Each vial of MRA-878A contains approximately 100 µL of purified monoclonal antibody in phosphate-buffered saline (PBS). The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

MRA-878A was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

Monoclonal antibody 1B3 is reported to function in an indirect immunofluorescence assay on gametes of *P. falciparum* parasites.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Plasmodium falciparum*, Strain 3D7 230 kDa Gamete Surface Protein (Pfs 230), Clone 1B3 (produced *in vitro*), MRA-878A, contributed by Allan Saul."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services,

Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Quakyi, I., et al., "The 230-kDa Gamete Surface Protein of *Plasmodium falciparum* is also a Target for Transmission-Blocking Antibodies." *J. Immunol.* 139 (1987): 4213-4217. PubMed: 2447164.

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