

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

Catalog No. MRA-878A

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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 (BEI Resources MRA-878) 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 contains 100 to 200 µL of purified monoclonal antibody in phosphate buffered saline (PBS). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

This product 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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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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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