

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

Catalog No. MRA-316A

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

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.^{1,2} The IIC5B-10-1 monoclonal antibody is known to target antigens of transmission-blocking immunity on gametes of *P. falciparum*.^{1,2}

Material Provided:

Each vial of MRA-316A contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

MRA-316A was packaged aseptically in screw-capped plastic cryovials 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 IIC5B10-1 is reported to function in Western blot and immunofluorescence assays.^{1,2}

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Antibody IIC5B-10-1 Anti-*Plasmodium falciparum* 48/45-kDa Gamete Surface Protein (Pfs48/45) (produced *in vitro*), MRA-316A, contributed by Louis H. Miller and Alan 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/bmb15/index.htm.

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References:

1. Rener, J., et al. "Target Antigens of Transmission-Blocking Immunity on Gametes of *Plasmodium falciparum*." J. Exp. Med. 158 (1983): 976-981. PubMed: 6350527.
2. Miller, L. H. and A. Saul, Personal Communication.

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