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.

For research use only. Not for use in humans.

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 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg/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 IIC5B-10-1 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 Anti-*Plasmodium falciparum* 48/45-kDa Gamete Surface Protein (Pfs48/45), Clone IIC5B-10-1 (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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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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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