

Monoclonal Anti-*Plasmodium falciparum* 25-kDa Gamete Surface Protein (Pfs25), Clone 4B7 (produced *in vitro*)

Catalog No. MRA-28

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG

Monoclonal antibody prepared against the 25-kDa gamete surface protein of *Plasmodium falciparum* (*P. falciparum*) (Pfs25) was produced from hybridoma clone 4B7 supernatant. The 4B7 hybridoma cell line (BEI Resources MRA-315) was produced by fusion of mouse myeloma cells with splenocytes from BALB/c mice immunized with recombinant vaccinia virus expressing Pfs25, and boosted with whole *P. falciparum* gametes. The 4B7 monoclonal antibody binds preferentially to surface protein Pfs25 of *P. falciparum*.^{1,2}

Material Provided:

Each vial contains 100 to 250 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

MRA-28 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 4B7 is reported to function in immunoblot, SDS-PAGE and transmission blocking analysis.^{1,2}

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Plasmodium falciparum* 25-kDa Gamete Surface Protein (Pfs25), Clone 4B7 (produced *in vitro*), MRA-28, contributed by Louis H. Miller and 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. Barr, P. J., et al. "Recombinant Pfs25 Protein of *Plasmodium falciparum* Elicits Malaria Transmission-Blocking Immunity in Experimental Animals." *J. Exp. Med.* 174 (1991): 1203-1208. PubMed: 1940798.
2. Miller, L. H. and A. Saul, Personal Communication.

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