

Monoclonal Anti-*Plasmodium berghei* 44-kDa Sporozoite Surface Protein, Clone 3D11 (produced *in vitro*)

Catalog No. MRA-100A

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1k

Monoclonal antibody prepared against the sporozoite surface protein of *Plasmodium berghei* (*P. berghei*) was purified from supernatants obtained from mouse 3D11 hybridoma. The murine hybridoma cell line, 3D11, was generated by the fusion of P3U1 mouse myeloma cells with splenocytes from BALB/c mice immunized with *P. berghei* sporozoites.^{1,2} The monoclonal antibody produced binds preferentially to the *P. berghei* 44-kDa sporozoite surface protein.^{1,2,3}

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-100A 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:

MRA-100A is reported to function in sporozoite neutralization *in vitro*, circumsporozoite precipitation, immunoprecipitation, immunofluorescence, and peptide ELISA.^{1,2,3}

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Plasmodium berghei* 44-kDa Sporozoite Surface Protein, Clone 3D11 (produced *in vitro*), MRA-100A, contributed by Victor Nussenzweig."

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](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Nussenzweig, V., Personal Communication.
2. Yoshida, N., et al. "Hybridoma Produces Protective Antibodies Directed against the Sporozoite Stage of Malaria Parasite." *Science* 207 (1980): 71-73. PubMed: 6985745.
3. Potocnjak, P., et al. "Monovalent Fragments (Fab) of Monoclonal Antibodies to a Sporozoite Surface Antigen (Pb44) Protect Mice against Malarial Infection." *J. Exp. Med.* 151 (1980): 1504-1513. PubMed: 6991628.

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