

Product Information Sheet for MRA-479A

Monoclonal Anti-*Plasmodium falciparum* Apical Membrane Antigen 1 (AMA1), Clone N3-2D9 (produced *in vitro*)

Catalog No. MRA-479A

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: IgG1κ, IgG2ακ

The hybridoma from which MRA-479 was derived is reported to produce antibody of the IgG1 subclass, but MRA-479 occasionally contains both IgG1κ and IgG2ακ probably because of a mixed hybridoma clone. However, the functional activity of this antibody preparation has been confirmed (see below). See Certificate of Analysis for lot-specific isotype results.

Monoclonal antibody prepared against the apical membrane antigen 1 (AMA1) of *Plasmodium falciparum* (*P. falciparum*) was purified from supernatants obtained from mouse N3-2D9 hybridoma.¹ The N3-2D9 monoclonal antibody is specific for the AMA1 of *P. falciparum*.¹

Material Provided:

Each vial contains approximately 100 µL (lot 70026314) or 250 µL (lot 3361174) of purified monoclonal antibody in PBS pH 7.2. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

MRA-479A 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 N3-2D9 is reported to function in western blot and immunofluorescence assays, and have a < 30% growth inhibitory effect on *P. falciparum*, strain FVO.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Plasmodium falciparum* Apical Membrane Antigen 1 (AMA1), Clone N3-2D9 (produced *in vitro*), MRA-479A, contributed by Carole A. Long."

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; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

- Long, C. A., Personal Communication.
- Paing, M. M., et al. "Shed EBA-175 Mediates Red Blood Cell Clustering that Enhances Malaria Parasite Growth and Enables Immune Evasion." *Elife* 7 (2018): e43224. PubMed: 30556808.

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