

Product Information Sheet for MRA-480

Hybridoma N3-1D7 Anti-*Plasmodium falciparum* Apical Membrane Antigen 1 (AMA1)

Catalog No. MRA-480

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For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

The murine hybridoma cell line, N3-1D7, was generated by the fusion of mouse myeloma cells with splenocytes from female BALB/c mice immunized with the apical membrane antigen 1 (AMA1) of *Plasmodium falciparum* (*P. falciparum*).¹

Material Provided:

Each vial contains approximately 0.5 mL of hybridoma cells in cell culture medium supplemented with 10% dimethylsulfoxide (DMSO) at a concentration of 5×10^6 cells per mL. Please see Appendix I for media preparation. Sufficient cells are provided to initiate at least one new culture.

Packaging/Storage:

This product was packaged aseptically in cryovials. It should be stored at cryogenic temperature (-100°C or colder), preferably in the vapor phase of a liquid nitrogen freezer. Storage at -70°C will result in loss of viability. To insure the highest level of viability, the vial should be thawed and the culture initiated as soon as possible upon receipt. Any warming of the product during shipping and transfer must be avoided, as this will adversely affect the viability of the product after thawing. For transfer between freezers and shipping, the cells may be placed on dry ice for brief periods, although use of a portable liquid nitrogen carrier is preferred. Please read the following recommendations prior to reconstituting this material.

Functional Activity:

Hybridoma N3-1D7 is not growth inhibitory on *P. falciparum* parasites.¹

Safety Precautions:

When handling frozen vials it is highly recommended that protective gloves, lab coat and full face mask be worn. Even brief exposure to the ultra-cold temperature can cause tissue damage from frostbite. Also, some vials may slowly fill with

liquid nitrogen if they have been immersed during cryogenic storage. When thawing, the liquid nitrogen may rapidly expand as it changes to gas, breaking the vial or cap with explosive force, sending debris flying with enough velocity to cause injury. Store and use in areas with adequate ventilation.

Subcultivation Procedure:

Prior to thawing the hybridoma cells, prepare cell culture medium according to Appendix I. Thaw one vial in a 37°C water bath and transfer the contents into a 25 cm cell culture flask with 10 mL of cell culture medium. Keep the flask loosely capped in a 37°C incubator with 5% CO₂. Split the cells twice a week approximately.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Hybridoma N3-1D7 Anti-*Plasmodium falciparum* Apical Membrane Antigen 1 (AMA1), MRA-480, 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. 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. Long, C. A., Personal Communication.

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**APPENDIX I: MEDIA PREPARATION**Cell Culture Medium

Advanced RPMI 1640 medium (Gibco™ 12633; 1×)

Supplemented with:

Fetal Bovine Serum (FBS, hybridoma-tested; 10%)

L-glutamine (4 mM)

Gentamicin (optional; 50 µg per mL)

Freezing Medium

Cell culture medium (as above)

10% DMSO

Freeze at 10^7 cells per mL