

Product Information Sheet for MRA-184A

SUPPORTING INFECTIOUS DISEASE RESEARCH

Monoclonal Anti-Plasmodium vivax, Strain VK210, Circumsporozoite Protein (CSP) Repeat, Clone 2F2 (produced in vitro)

Catalog No. MRA-184A

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2bk

Monoclonal antibody prepared against the circumsporozoite protein (CSP) repeat DRAD/AGQPAG of Plasmodium vivax (P. vivax) was purified using protein G affinity chromatography from supernatants obtained from mouse 2F2 hybridoma. The murine hybridoma cell line, 2F2, was generated by the fusion of myeloma cells with splenocytes from mice immunized with sporozoites derived from Anopheles mosquitoes infected with a synthetic peptide containing CSP repeat (DRAD/AGQPAG) of P. vivax, strain VK210.1 MRA-184A is specific for P. vivax, strain VK-210 sporozoites, and recognizes P. vivax CSP repeats (DRAD/AGQPAG).1,2

Material Provided:

Each vial contains approximately 100 uL of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

MRA-184A 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-184A is reported to function in ELISA, immunofluorescence, electron microscopy, immunoprecipitation and immunoblot assays. 1,3,4

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Plasmodium vivax, Strain VK210. Circumsporozoite Protein (CSP) Repeat, Clone 2F2 (produced in vitro), MRA-184A, contributed by Elizabeth Nardin."

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). Current Edition. Washington, DC: U.S. Government Printing Office.

Disclaimers:

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References:

- Nardin, E., Personal Communication.
- Nardin, E., et al. "Circumsporozoite Proteins of Human Parasites Plasmodium falciparum and Plasmodium vivax." J. Exp. Med. 156 (1982): 20-30. PubMed: 7045272.
- Gimenez, A. M., et al. "Vaccine Containing the Three Variants of the Plasmodium Circumsporozoite Antigen Induces Protection in Mice after Challenge with a Transgenic Rodent Malaria Parasite." Front. Immunol. 8 (2017): 1275. PubMed: 29075260.
- Teixeira, L. H, et al. "Immunogenicity of a Prime-Boost Vaccine Containing the Circumsporozoite Proteins of Plasmodium vivax in Rodents." Infect. Immun. 82 (2014): 793-807. PubMed: 24478093.

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