# Product Information Sheet for MRA-1242

## Monoclonal Antibody SAI131-5D5 Anti-*Plasmodium falciparum* Circumsporozoite Protein (rCSP), Full-Length Recombinant

## Catalog No. MRA-1242

## For research use only. Not for human use.

### Contributor and Manufacturer:
Gabriel M. Gutierrez, Ph.D., Program Manager, Leidos Inc., Frederick, Maryland, USA

### Product Description:
Antibody Class: IgG (subclass unknown)
Mouse monoclonal antibody prepared against two overlapping peptides on the N-terminus of full-length *Plasmodium falciparum* recombinant circumsporozoite protein (rCSP). The SAI131-5D5 monoclonal antibody recognizes CSP in live sporozoites, inhibits CSP processing, and inhibits infection of hepatocytes in a mouse model.[1,2]

### Material Provided:
Each vial of MRA-1242 contains approximately 40 µL of purified monoclonal antibody SAI131-5D5 in PBS (concentration: 1 mg per mL).

### Packaging/Storage:
MRA-1242 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 SAI131-5D5 is reported to function in ELISA, Western blot, immunofluorescence assays, and vaccine studies.[1-3]

### Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Antibody SAI131-5D5 Anti-*Plasmodium falciparum* Circumsporozoite Protein (rCSP), Full-Length Recombinant, MRA-1242, contributed by Gabriel M. Gutierrez."

### 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.

### Disclaimers:
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### References:
1. Noe, A. R., et al. "A Full-Length *Plasmodium falciparum* Recombinant Circumsporozoite Protein Expressed by *Pseudomonas fluorescens* Platform as a Malaria Vaccine Candidate." PLoS One 9 (2014): e107764. PubMed: 25247295.
2. Espinosa, D. A., et al. "Proteolytic Cleavage of the *Plasmodium falciparum* Circumsporozoite Protein Is a Target of Protective Antibodies." J. Infect. Dis. 212 (2015): 1111-1119. PubMed: 25762791.
3. Gutierrez., G. M., Personal Communication.



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