Polyclonal Anti-*Plasmodium falciparum* PfGRP78 (BiP), Anti-SGDEDVDSDEL Peptide (antiserum, Rat)

Catalog No. MRA-1247

For research use only. Not for human use.

Contributor and Manufacturer:
BEI Resources

Product Description:
Antiserum to a synthetic peptide (C-SGDEDVDSDEL) of glucose-regulated protein (immunoglobulin binding protein) from *Plasmodium falciparum (P. falciparum)* (PfGRP78 or BiP)[1], conjugated to keyhole limpet hemocyanin using an introduced N-terminal cysteine, was produced by immunization of rats.

PfGRP78 (BiP) is a glucose-regulated, stress-related protein abundantly expressed in the endoplasmic reticulum and involved in transport.[1]

Material Provided:
Each vial of MRA-1247 contains approximately 500 µL of polyclonal anti-*P. falciparum* PfGRP78 (BiP) rat antiserum.

Packaging/Storage:
MRA-1247 is packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. MRA-1247 should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
MRA-1247 is active in indirect immunofluorescence assays and western blot analysis. See the Certificate of Analysis for results of immunofluorescence assay and western blot analysis performed at BEI Resources.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-*Plasmodium falciparum* PfGRP78 (BiP), Anti-SGDEDVDSDEL Peptide (antiserum, Rat), MRA-1247."

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. Kumar, N., et al. "Induction and Localization of *Plasmodium falciparum* Stress Proteins Related to the Heat Shock Protein 70 Family." Mol. Biochem. Parasitol. 48 (1991): 47-58. PubMed: 1779989.

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