

## Monoclonal Anti-*Toxoplasma gondii* ROP4 Protein, Clone T2 2H3 (produced *in vitro*)

Catalog No. NR-50251

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

### Contributor:

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### Manufacturer:

BEI Resources

### Product Description:

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against the rhopty protein, ROP4, of *Toxoplasma gondii* clone T2 2H3 was purified from the hybridoma supernatant by protein G affinity chromatography. ROP4 is a type I transmembrane protein belonging to the ROP2 family of proteins. The mature, processed ROP4 is localized in the rhopties, secretory organelles at the apical end of the parasite, and is secreted from the parasite during host cell invasion.<sup>1-3</sup>

### Material Provided:

Each vial of NR-50251 contains approximately 100 µL of purified monoclonal antibody in PBS, pH 7.4. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

### Packaging/Storage:

NR-50251 was packaged aseptically in screw-capped plastic vials 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:

NR-50251 is shown to react with ROP4 and to function in immunofluorescence and immunoblot assays.<sup>1,2</sup>

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Toxoplasma gondii* ROP4 Protein, Clone T2 2H3 (produced *in vitro*), NR-50251."

### 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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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### References:

- Dubremetz, J. F., Personal Communication.
- Carey, K. L., et al. "The *Toxoplasma gondii* Rhopty Protein ROP4 is Secreted into the Parasitophorous Vacuole and Becomes Phosphorylated in Infected Cells." *Eukaryot. Cell* 3 (2004): 1320-1330. Pubmed: 15470260.
- Sadak, A., et al. "Characterization of a Family of Rhopty Proteins of *Toxoplasma gondii*." *Mol. Biochem. Parasitol.* 29 (1988): 203-211. Pubmed: 3045541.

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