Monoclonal Anti-*Toxoplasma gondii* ROP1 Protein, Clone T5 2A3 (produced *in vitro*)

Catalog No. NR-50262

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG3λ
Mouse monoclonal antibody prepared against the rhoptry protein, ROP1, of *Toxoplasma gondii* clone T5 2A3 was purified from the hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of SP2/0 myeloma cells with immunized BALB/c mouse splenocytes. Clone T5 2A3 recognizes the rhoptry protein ROP1.[1,2] Rhoptry proteins are released concurrently with the formation of the parasitophorous vacuole (PV) and are thought to contribute to both the formation and functional properties of the PV membrane. The function of ROP1 has not been well established, but it has been a useful model for studying rhoptry protein trafficking and processing.[2,3]

Material Provided:
Each vial 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-50262 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-50262 is reported to react with ROP1 and to function in immunofluorescence and immunoblot assays.[1-3]

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Toxoplasma gondii* ROP1 Protein, Clone T5 2A3 (produced *in vitro*), NR-50262."

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. Dubremetz, J. F., Personal Communication.
2. Dubremetz, J. F., et al. "Kinetics and Pattern of Organelle Exocytosis during *Toxoplasma gondii*/Host-Cell Interaction." Parasitol. Res. 79 (1993): 402-408. PubMed: 8415546.
3. Carey, K. L., et al. "The *Toxoplasma gondii* Rhoptry Protein ROP4 Is Secreted into the Parasitophorous Vacuole and Becomes Phosphorylated in Infected Cells." Eukaryot. Cell 3 (2004): 1320-1330. Pubmed: 15470260.

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