Monoclonal Anti-*Toxoplasma gondii* Rhoptry Neck Protein RON4, Clone T5 4H1 (produced *in vitro*)

Catalog No. NR-50268

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG2aκ
Mouse monoclonal antibody prepared against the rhoptry neck (RON) protein RON4 of *Toxoplasma gondii* clone T5 4H1 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 4H1 recognizes the RON4 protein.[1,2] RON4 is involved in host cell invasion through a contact zone called the moving junction.[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-50268 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-50268 is reported to react with RON4 and to function in immunofluorescence and immunoblot assays.[2,3]

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Toxoplasma gondii* Rhoptry Neck Protein RON4, Clone T5 4H1 (produced *in vitro*), NR-50268."

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. Lebrun, M., et al. "The Rhoptry Neck Protein RON4 Re-localizes at the Moving Junction during *Toxoplasma gondii* Invasion." Cell. Microbiol. 7 (2005): 1823-1833. PubMed: 16309467.
3. Alexander, D. L., et al. "Identification of the Moving Junction Complex of *Toxoplasma gondii*: A Collaboration between Distinct Secretory Organelles." PLoS Pathog. 1 (2005): e17. PubMed: 16244709.

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