Monoclonal Anti-*Toxoplasma gondii* Dense Granule Antigen 2, Clone T4 1F5 (produced *in vitro*)

Catalog No. NR-50260

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 dense granule antigen 2 (GRA2) of *Toxoplasma gondii* clone T4 1F5 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 T4 1F5 recognizes the GRA2 protein.[1] GRA2 (~ 28 kDa) is one of several dense granule proteins that are secreted and localized in the parasitophorous vacuole.[2,3] Knockout experiments indicated that the GRA2 protein plays a role in the formation and maturation of the intravacuolar network and may have a potential role in infectivity.[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-50260 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-50260 is reported to react with GRA2 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* Dense Granule Antigen 2, Clone T4 1F5 (produced *in vitro*), NR-50260."

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:
You are authorized to use this product for research use only. It is not intended for human use.

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References:
1. Dubremetz, J. F., Personal Communication.
2. Achbarou, A., et al. "Differential Targeting of Dense Granule Proteins in the Parasitophorous Vacuole of *Toxoplasma gondii*." Parasitology 103 (1991): 321-329. PubMed: 1780169.
3. Rommereim, L. M., et al. "Phenotypes Associated with Knockouts of Eight Dense Granule Gene Loci *(GRA2-9)* in Virulent *Toxoplasma gondii*." PLoS One 11 (2016): e0159306. PubMed: 27458822.

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