

**Monoclonal Anti-Toxoplasma gondii
Micronemal Protein 3, Clone T4 2F3
(produced *in vitro*)**

Catalog No. NR-50261

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak

Mouse monoclonal antibody prepared against the micronemal protein 3 (MIC3) of *Toxoplasma gondii* (*T. gondii*) clone T4 2F3 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. MIC3 is a 90 kDa heterodimer that is expressed in the tachyzoite, bradyzoite and sporozoite stages of *T. gondii* life cycle and plays an important role in recognition, adhesion and invasion of host cells by *T. gondii*.^{1,2}

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-50261 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-50261 is reported to react with MIC3 and to function in immunofluorescence and immunoblot assays.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Toxoplasma gondii Micronemal Protein 3, Clone T4 2F3 (produced *in vitro*), NR-50261."

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/bmb15/index.htm.

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References:

1. Achbarou, A. et al. "Characterization of Microneme Proteins of *Toxoplasma gondii*." Mol. Biochem. Parasitol. 47 (1991): 223-233. PubMed: 1944419.
2. Wang, Y. and H. Yin. "Research Advances in Microneme Protein 3 of *Toxoplasma gondii*." Parasit. Vectors 8 (2015): 384. PubMed: 26194005.

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