

Monoclonal Anti-*Toxoplasma gondii* Surface Antigen 3 Protein, Clone T4 1F12 (produced *in vitro*)

Catalog No. NR-50257

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 surface antigen 3 (SAG3) protein of *Toxoplasma gondii* (*T. gondii*) clone T4 1F12 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 1F12 recognizes the SAG3 protein.^{1,2} The SAG3 or P43 protein (~ 43 kDa) is one of five major surface proteins of *T. gondii* tachyzoites, all of which are anchored to the plasma membrane via glycosylphosphatidyl-inositols.^{3,4}

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-50257 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-50257 is reported to react with native SAG3 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* Surface Antigen 3 Protein, Clone T4 1F12 (produced *in vitro*), NR-50257."

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. Dubremetz, J. F., Personal Communication.
2. Couvreur, G., et al. "Surface Antigens of *Toxoplasma gondii*." *Parasitology* 97 (1988): 1-10. PubMed: 3174230.
3. Dzierszinski, F., et al. "Targeted Disruption of the Glycosylphosphatidylinositol-Anchored Surface Antigen SAG3 Gene in *Toxoplasma gondii* Decreases Host Cell Adhesion and Drastically Reduces Virulence in Mice." *Mol. Microbiol.* 37 (2000): 574-582. Pubmed: 10931351.
4. Tomavo, S., et al. "Immunolocalization and Characterization of the Low Molecular Weight Antigen (4-5 kDa) of *Toxoplasma gondii* that Elicits an Early IgM Response upon Primary Infection." *Parasitology* 108 (1994): 139-145. PubMed: 7512710.

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