

# Monoclonal Anti-*Toxoplasma gondii* Surface Antigen 1 Protein, Clone T4 1E5 (produced *in vitro*)

**Catalog No. NR-50255**

**For research use only. Not for human use.**

## Contributor:

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## Manufacturer:

BEI Resources

## Product Description:

Antibody Class: IgG3k

Mouse monoclonal antibody prepared against the surface antigen 1 (SAG1) protein of *Toxoplasma gondii* (*T. gondii*) clone T4 1E5 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 1E5 recognizes the SAG1 protein.<sup>1-2</sup> SAG1 or P30 protein (~ 30 kDa) is a stage-specific antigen abundant on the surface of both extracellular and intracellular tachyzoites.<sup>2,3</sup> It is anchored to the plasma membrane via glycosylphosphatidylinositols (GPI) and is one of the most highly-conserved, immunogenic *T. gondii* antigens. SAG1 is primarily involved in host-cell invasion and receptor binding.<sup>3</sup>

## 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-50255 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-50255 is reported to react with native SAG1 and to function in immunofluorescence and immunoblot assays.<sup>1-2</sup>

## Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-*Toxoplasma gondii* Surface Antigen 1 Protein, Clone T4 1E5 (produced *in vitro*), NR-50255."

## 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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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## References:

- Dubremetz, J. F., Personal Communication.
- Couvreux, G., et al. "Surface Antigens of *Toxoplasma gondii*." *Parasitology* 97 (1988): 1-10. PubMed: 3174230.
- Wang, Y. and H. Yin. "Research Progress on Surface Antigen 1 (SAG1) of *Toxoplasma gondii*." *Parasit. Vectors* 7 (2014): 180. PubMed: 24726014.

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