

Monoclonal Anti-*Toxoplasma gondii* Dense Granule Antigen 3, Clone T6 2H11 (produced *in vitro*)

Catalog No. NR-50269

For research use only. Not for human use.

Contributor:

Dr. Jean Francois Dubremetz, Research Director Emeritus, French National Center for Scientific Research (CNRS), University of Montpellier, National Institute of Health and Medical Research (INSERM), Montpellier, France

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2bk

Mouse monoclonal antibody prepared against the dense granule antigen 3 (GRA3) of *Toxoplasma gondii* clone T6 2H11 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 T6 2H11 recognizes the GRA3 protein.¹ GRA3 (~ 30 kDa) is one of several dense granule proteins that are secreted and localized in the parasitophorous vacuole.^{2,3} Single knockouts suggested that GRA3 is not essential, but double knockouts with GRA5 or GRA7 exhibited defects in replication rate.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-50269 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-50269 is reported to react with GRA3 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 3, Clone T6 2H11 (produced *in vitro*), NR-50269."

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.

Disclaimers:

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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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