

**Monoclonal Anti-Guinea Pig CD3 Epsilon Protein, Clone GP23.9B3.4B (produced *in vitro*)**

**Catalog No. NR-49574**

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

**Contributor and Manufacturer:**

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**Manufacturing Date:**

September 2, 2014

**Product Description:**

Antibody Class: IgG1 $\lambda$

Mouse monoclonal antibody prepared against a recombinant form of the CD3 epsilon (CD3e; CD3 $\epsilon$ ) protein of guinea pig was purified from clone GP23.9B3.4B murine hybridoma supernatant by affinity chromatography. The partial recombinant CD3e protein (residues Gln22 to Thr116) with a C-terminal histidine tag was expressed in *Escherichia coli*.<sup>1</sup> The B cell hybridoma was generated by the fusion of NS0 myeloma cells with immunized mouse splenocytes.<sup>1</sup> The CD3e protein is part of the T-cell receptor (TCR) complex that is required for signal transduction.<sup>2</sup>

**Material Provided:**

Each vial contains approximately 100  $\mu$ L of purified monoclonal antibody in 10 mM PBS (pH 7.4) at a concentration of 1 mg per mL.

**Packaging/Storage:**

NR-49574 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. The item should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-49574 is reactive in ELISA, flow cytometry and western blot analyses.<sup>1</sup>

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Guinea Pig CD3 Epsilon Protein, Clone GP23.9B3.4B (produced *in vitro*), NR-49574."

**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:**

1. Mukherjee, J., Personal Communication.
2. Guy, C. S. and D. A. Vignali. "Organization of Proximal Signal Initiation at the TCR:CD3 Complex." Immunol. Rev. 232 (2009): 7-21. PubMed: 19909352.

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