

Monoclonal Anti-Guinea Pig T Cell Receptor Alpha Protein, Clone GP17.8D10.6F (produced *in vitro*)

Catalog No. NR-49563

For research use only. Not for human use.

Contributor and Manufacturer:

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Manufacturing Date:

March 11, 2014

Product Description:

Antibody Class: IgG2bk

Mouse monoclonal antibody prepared against a recombinant form of the T cell receptor (TCR) alpha protein of guinea pig was purified from clone GP17.8D10.6F murine hybridoma supernatant by affinity chromatography. The N-terminal 84 amino acid portion of the TCR alpha protein, without the signal sequence and with a C-terminal histidine tag, was expressed in human embryonic kidney HEK293 cells.¹ The B cell hybridoma was generated by the fusion of NS0 myeloma cells with immunized mouse splenocytes.¹ TCR is an antigen receptor on T lymphocytes that recognizes complexes of peptides bound to self major histocompatibility complexes on antigen-presenting cells. The most common type of TCR is a heterodimer composed of an alpha chain and a beta chain.²

Material Provided:

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

Packaging/Storage:

NR-49563 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-49563 is reactive in ELISA, flow cytometry and western blot analyses.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Guinea Pig T Cell Receptor Alpha Protein, Clone GP17.8D10.6F (produced *in vitro*), NR-49563."

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.

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References:

1. Mukherjee, J., Personal Communication.
2. Marrack, P. and J. Kappler. "The T Cell Receptor." Science 238 (1987): 1073-1079. PubMed: 3317824.

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