

**Monoclonal Anti-Guinea Pig Interleukin-12 p40 Protein, Clone GP1.7F8.8G (produced *in vitro*)**

**Catalog No. NR-49539**

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

**Contributor and Manufacturer:**

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**Manufacturing Date:**

January 15, 2013

**Product Description:**

Antibody Class: IgG1κ  
 Mouse monoclonal antibody prepared against a recombinant form of the interleukin-12 (IL-12) p40 protein of guinea pig was purified from clone GP1.7F8.8G murine hybridoma supernatant by affinity chromatography. The recombinant IL-12 p40 protein with a C-terminal histidine tag was expressed in human embryonic kidney HEK293 cells.<sup>1</sup> The B cell hybridoma was generated by the fusion of NS0 myeloma cells with immunized mouse splenocytes.<sup>1</sup> IL-12 is a heterodimeric cytokine composed of covalently linked p40 and p35 chains and is produced in dendritic cells, macrophages, neutrophils and B cells in response to antigenic stimulation.<sup>2,3</sup>

**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-49539 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-49539 is reactive in ELISA 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 Interleukin-12 p40 Protein, Clone GP1.7F8.8G (produced *in vitro*), NR-49539.”

**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. Heufer, C., et al. “Interleukin-12 is Produced by Dendritic Cells and Mediates T Helper 1 Development as well as Interferon-Gamma Production by T Helper 1 Cells.” Eur. J. Immunol. 26 (1996): 659-668. PubMed: 8605935.
3. Liu, J., et al. “Interleukin-12: An Update on its Immunological Activities, Signaling and Regulation of Gene Expression.” Curr. Immunol. Rev. 1 (2005): 119-137. PubMed: 21037949.

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