

**Monoclonal Anti-Guinea Pig Interleukin-23 Protein, Clone GP5.6F1.4F (produced *in vitro*)**

**Catalog No. NR-49548**

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

**Contributor and Manufacturer:**

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**Manufacturing Date:**

April 26, 2013

**Product Description:**

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against recombinant interleukin (IL-23) protein of guinea pig was purified from clone GP5.6F1.4F murine hybridoma supernatant by affinity chromatography. The recombinant IL-23 protein 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> IL-23 belongs to the IL-12 family of cytokines; the full-length IL-23 is a disulfide-linked heterodimer, composed of IL-12 p40 fused to IL-23 p19.<sup>2,3</sup>

**Material Provided:**

Each vial contains approximately 100 µg of purified monoclonal antibody as either 100 µL at a concentration of 1 mg per mL or 200 µL at a concentration of 0.5 mg per mL in 10 mM PBS (pH 7.4).

**Packaging/Storage:**

NR-49548 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-49548 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-23 Protein, Clone GP5.6F1.4F (produced *in vitro*), NR-49548."

**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. Vignali, D. A. A. and V. K. Kuchroo. "IL-12 Family Cytokines: Immunological Playmakers." Nat. Immunol. 13 (2012): 722-728. PubMed: 22814351.
3. Zwirner, N. W. and A. Zibat. "Regulation of NK Cell Activation and Effector Functions by the IL-12 Family of Cytokines: The Case of IL-27." Front. Immunol. 8 (2017): 25. PubMed: 28154569.

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