

**Monoclonal Anti-Guinea Pig Interleukin-10 Protein, Clone GP7.7F2.3B (produced *in vitro*)**

**Catalog No. NR-49554**

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

**Contributor and Manufacturer:**

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**Manufacturing Date:**

July 2, 2013

**Product Description:**

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against a recombinant form of the interleukin-10 (IL-10) protein of guinea pig was purified from clone GP7.7F2.3B murine hybridoma supernatant by affinity chromatography. The recombinant IL-10 protein was expressed in *Escherichia coli* (BEI Resources NR-36040).<sup>1</sup> The B cell hybridoma was generated by the fusion of NS0 myeloma cells with immunized mouse splenocytes. IL-10 is the founding member of the IL-10 cytokine family. IL-10 is a unique class 2 cytokine that potently inhibits the production of pro-inflammatory cytokines such as IFN $\gamma$ , tumor necrosis factor  $\alpha$  (TNF $\alpha$ ), IL-1 $\beta$ , and IL-6 in several cell types and prevents dendritic cell maturation, in addition to having several other roles in immune cell function, growth and differentiation.<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-49554 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-49554 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-10 Protein, Clone GP7.7F2.3B (produced *in vitro*), NR-49554."

**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](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Mukherjee, J., Personal Communication.
2. Walter, M. R. "The Molecular Basis of IL-10 Function: From Receptor Structure to the Onset of Signaling." Curr. Top. Microbiol. Immunol. 380 (2014): 191-212. PubMed: 25004819.

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