

Monoclonal Anti-Guinea Pig Inducible Nitric Oxide Synthase Protein, Clone GP14.8B9.3I (produced *in vitro*)

Catalog No. NR-49560

For research use only. Not for human use.

Contributor and Manufacturer:

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Manufacturing Date:

February 4, 2014

Product Description:

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against a recombinant form of the inducible nitric oxide synthase (iNOS) protein of guinea pig was purified from clone GP14.8B9.3I murine hybridoma supernatant by affinity chromatography. A C-terminal portion of iNOS protein (365 amino acids) was expressed in *Escherichia coli*.¹ The B cell hybridoma was generated by the fusion of NS0 myeloma cells with immunized mouse splenocytes.¹ iNOS is one of three nitric oxide synthase isoenzymes that is inducible, while the other two, endothelial (eNOS) and neuronal (nNOS), are constitutive. iNOS is not typically expressed in resting macrophages and must first be stimulated by cytokines, microbial products, or lipopolysaccharide.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-49560 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-49560 is reactive in ELISA 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 Inducible Nitric Oxide Synthase Protein, Clone GP14.8B9.3I (produced *in vitro*), NR-49560."

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. Geller, D. A. and T. R. Billiar. "Molecular Biology of Nitric Oxide Synthases." Cancer Metastasis Rev. 17 (1998): 7-23. PubMed: 9544420.

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