

Product Information Sheet for NR-15259

SUPPORTING INFECTIOUS DISEASE RESEARCH

Monoclonal Anti-Human Interferon Beta Protein, Clone A5 (produced *in vitro*)

Catalog No. NR-15259

For research use only. Not for human use.

Contributor:

Sidney E. Grossberg, M.D., Professor, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, Milwaukee, Wisconsin, USA

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgAk

Mouse monoclonal antibody prepared against a recombinant form of the human interferon beta (IFN- β) protein was purified from clone A5 hybridoma supernatant using a protein-free thiophilic adsorbent. The B cell hybridoma was generated by the fusion of P3X63Ag8.653 myeloma cells with splenocytes from a BALB/c x DBA F1 mouse immunized repeatedly with recombinant human IFN- β protein in adjuvant.¹ The clone A5 antibody is specific for human IFN- β and does not cross-react with IFN- α or IFN- γ .

Material Provided:

Each vial of NR-15259 contains approximately 100 μ L of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-15259 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-15259 recognizes recombinant human IFN- β in western blot assays. The clone A5 monoclonal antibody is also reported to function in ELISA and RIA, and to neutralize the anti-viral and anti-proliferative effects of IFN- β . The epitope recognized by the clone A5 antibody has been mapped to the interferon α/β receptor subunit 2 (INFAR-2) binding site of IFN- β .²

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Human Interferon Beta Protein, Clone A5 (produced *in vitro*), NR-15259."

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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- Redlich, P. N., and S. E. Grossberg. "Analysis of Antigenic Domains on Natural and Recombinant Human IFN-β by the Inhibition of Biologic Activities with Monoclonal Antibodies." J. Immunol. 143 (1989): 1887-1893. PubMed: 2476486.
- Runkel, L., et al. "Mapping of IFN-β Epitopes Important for Receptor Binding and Biologic Activation: Comparison of Results Achieved Using Antibody-Based Methods and Alanine Substitution Mutagenesis." J. Interferon Cytokine Res. 21 (2001): 931-941. PubMed: 11747625.

ATCC® is a trademark of the American Type Culture Collection.

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

NR-15259 11.II II 2018