

Monoclonal Anti-*Wolbachia* Surface Protein (Immunoglobulin G, Mouse)

Catalog No. NR-51142

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For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak

Mouse monoclonal antibody recognizing the *Wolbachia* surface protein (WSP) wBm0432 (GenPept: WP_011256630) was purified from mouse ascites fluid by protein G affinity chromatography. Ascites formation was induced in BALB/c mice using cultured hybridoma cells. *Wolbachia* are rickettsia-like endosymbionts found in filarial nematodes, including the etiologic agents of lymphatic filariasis and river blindness.¹ *Wolbachia* are obligatory symbionts in these hosts, required by the nematode for reproduction, development and long-term survival.² These bacteria are of interest as chemotherapeutic targets and disease-causing organisms.

Material Provided:

Each vial of NR-51142 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-51142 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-51142 has been reported to recognize WSP in a Luminex® microsphere-based assay.^{3,4} Users may wish to determine an optimal concentration of antibody for their applications.

Citation:

Acknowledgment for publications should read "The following reagent was provided by the NIH/NIAID Filariasis Research Reagent Resource Center for distribution by BEI Resources,

NIAID, NIH: Monoclonal Anti-*Wolbachia* Surface Protein (Immunoglobulin G, Mouse), NR-51142."

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. Scott, A. L., et al. "Filarial and *Wolbachia* Genomics." Parasite Immunol. 34 (2012): 121-129. PubMed: 22098559.
2. Genchi, C., et al. "*Wolbachia* and its Implications for the Immunopathology of Filariasis." Endocr. Metab. Immune

Disord. Drug Targets 12 (2012): 53-56. PubMed: 22214329.

3. Lammie, P. J., Personal Communication.
4. Moss, D. M., et al. "Multiplex Bead Assay for Serum Samples from Children in Haiti Enrolled in a Drug Study for the Treatment of Lymphatic Filariasis." Am. J. Trop. Med. Hyg. 85 (2011): 229-237. PubMed: 21813840.

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