

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

**Catalog No. NR-51684**

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

**Contributor:**

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**Manufacturer:**

Lampire Biological Laboratories, Pipersville, Pennsylvania, USA

**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 A affinity chromatography. Ascites formation was induced in mice using cultured hybridoma cells. *Wolbachia* are rickettsia-like endosymbionts found in filarial nematodes, including the etiologic agents of lymphatic filariasis and river blindness.<sup>1</sup> *Wolbachia* are obligatory symbionts in these hosts, required by the nematode for reproduction, development and long-term survival.<sup>2</sup> These bacteria are of interest as chemotherapeutic targets and disease-causing organisms.

**Material Provided:**

Each vial of NR-51684 contains approximately 100 µL of purified monoclonal antibody in 2 M Tris buffer, pH 7.5. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**

NR-51684 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-51684 has been reported to recognize WSP in an immunohistochemistry assay.<sup>3</sup> 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-51684.”

**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](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/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. Michalski, M., 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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