Product Information Sheet for NR-31691

Monoclonal Anti-Influenza A Virus Polymerase Basic Subunit 1 (PB1), Clone F5-19 (produced *in vitro*)

Catalog No. NR-31691

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG1κ
Mouse monoclonal antibody prepared against the polymerase basic subunit 1 (PB1) of influenza A virus was purified from clone F5-19 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0 mouse myeloma cells with splenocytes from BALB/c mice immunized by subcutaneous and intraperitoneal injection with purified RNA-dependent RNA polymerase complex from influenza virus A/chicken/Nanchang/3-120/2001 (H3N2).[1] The trimeric polymerase complex used for immunization was prepared from *Trichoplusia ni* insect cells coinfected with three recombinant baculoviruses expressing the individual polymerase subunits.[2]

Material Provided:
Each vial of NR-31691 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-31691 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-31691 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-31691 binds to both the purified polymerase complex and the PB1 subunit from influenza virus A/chicken/Nanchang/3-120/2001 (H3N2) in ELISA. See Certificate of Analysis for details. The antibody is also reported to be functional in RIA, western blot, immunocytochemistry, immunofluorescence, and immunoprecipitation assays, and to react with polymerase proteins from a variety of other influenza strains.[1]

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Influenza A Virus Polymerase Basic Subunit 1 (PB1), Clone F5-19 (produced *in vitro*), NR-31691."

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.

Disclaimers:
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References:
1. MacDonald, L. A., et al. "Molecular Interactions and Trafficking of Influenza A Virus Polymerase Proteins

Analyzed by Specific Monoclonal Antibodies." Virology 426 (2012): 51-59. PubMed: 22325937.
2. Aggarwal, S., et al. "Biochemical Characterization of Enzyme Fidelity of Influenza A Virus RNA Polymerase Complex." PLoS One 5 (2010): e10372. PubMed: 20454455.

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