Monoclonal Anti-Influenza A Virus Polymerase Basic Subunit 1 (PB1), Clone F5-10 (produced *in vitro*)

Catalog No. NR-31690

For research use only. Not for use in humans.

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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG1 λ
Mouse monoclonal antibody prepared against the polymerase basic subunit 1 (PB1) of influenza A virus was purified from clone F5-10 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 n*i insect cells coinfected with three recombinant baculoviruses expressing the individual polymerase subunits.[2]

Material Provided:
Each vial of NR-31690 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-31690 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-31690 binds to both the purified polymerase complex and the PB1 subunit from influenza virus A/chicken/Nanchang/3-120/2001 (H3N2) in ELISA. The antibody is also reported to be functional in radioimmunoassay, western blot, immunocytochemistry, and immunofluorescence 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 F5-10 (produced *in vitro*), NR-31690."

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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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