

Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone 3A7 (produced *in vitro*)

Catalog No. NR-42018

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Contributor:

Jerry P Weir, Ph.D., Division of Viral Products, Office of Vaccine Research and Review, Center for Biologics Evaluation and Research, US Food and Drug Administration, Rockville, MD, USA

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak

Mouse monoclonal antibody prepared against the H1 hemagglutinin (HA) protein of the A/California/04/2009 (H1N1)pdm09 strain of influenza virus was affinity purified from clone 3A7 hybridoma. Lot 61715288 was purified using protein G magnetic beads. Lot 70007930 was purified by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of mouse myeloma cells with splenocytes from BALB/c mice immunized and boosted with virus-like particles containing only the influenza virus A/California/04/2009 (H1N1)pdm09 HA.¹

HA is an antigenic glycoprotein found on the envelope of the influenza A virus. This protein binds to cellular receptors on the target cell and allows the influenza A virus to enter via endocytosis and membrane fusion. HA is an important target for drug and vaccine development.

Material Provided:

Each vial of NR-42018 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-42018 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-42018 recognizes influenza A virus A/California/04/2009 (H1N1)pdm09-infected cells in indirect immunofluorescence assays. See Certificate of Analysis for details. The antibody

is not neutralizing. Clone 3A7 antibody is also reported to function in ELISA and western blot assays.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone 3A7 (produced *in vitro*), NR-42018."

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. Schmeisser, F., et al. "Neutralizing and Protective Epitopes of the 2009 Pandemic Influenza H1N1 Hemagglutinin." Influenza Other Respir. Viruses 7 (2013): 480-490. PubMed: 23122228.

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