

Monoclonal Anti-Influenza A Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone 4F8 (produced *in vitro*)

Catalog No. NR-42021

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Contributor:

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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 A virus was purified from clone 4F8 hybridoma supernatant 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-42021 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-42021 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-42021 recognizes influenza A virus A/California/04/2009 (H1N1)pdm09-infected cells in indirect immunofluorescence assays, and neutralizes A/California/04/2009 (H1N1)pdm09 *in vitro*. See Certificate of Analysis for details. Clone 4F8

antibody is also reported to function in ELISA, hemagglutination inhibition, and western blot assays.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Influenza A Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone 4F8 (produced *in vitro*), NR-42021."

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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