Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/South Carolina/1/1918 (H1N1), Clone 5D3 (produced *in vitro*)

Catalog No. NR-13451

For research use only. Not for human use.

Contributor:
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Manufacturer:
NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Product Description:
Antibody Class: IgG2aκ
Mouse monoclonal antibody prepared against the H1 hemagglutinin (HA) of influenza virus A/South Carolina/1/1918 (H1N1) was purified from clone 5D3 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0 BALB/c mouse myeloma cells with splenocytes from mice immunized by DNA vaccination with a plasmid encoding the HA of influenza virus, A/South Carolina/1/1918 (H1N1) and then boosted with whole inactivated virus.

Material Provided:
Each vial of NR-13451 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-13451 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-13451 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-13451 is reactive against the H1 HA of influenza virus, A/South Carolina/1/1918 (H1N1) in hemagglutination inhibition assays, indirect immunofluorescence assays, and western blot assays.[1]

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/South Carolina/1/1918 (H1N1), Clone 5D3 (produced *in vitro*), NR-13451."

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References:
1. A. Garcia-Sastre, personal communication.
2. Manicassamy, B., et al. "Protection of Mice against Lethal Challenge with 2009 H1N1 Influenza A Virus by 1918-Like and Classical Swine H1N1 Based Vaccines." PLoS Pathog. 6 (2010): e1000745. PubMed: 20126449.
3. Glaser, L., et al. "A Single Amino Acid Substitution in

1918 Influenza Virus Hemagglutinin Changes Receptor Binding Specificity." J. Virol. 79 (2005): 11533-11536. PubMed: 16103207.

4. Tumpey, T. M., et al., "Existing Antivirals are Effective against Influenza Viruses with Genes from the 1918 Pandemic Virus." Proc. Natl. Acad. Sci. U. S. A. 99 (2002): 13849-13854. PubMed: 12368467.

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