

Polyclonal Anti-Influenza Virus H5 Hemagglutinin (HA), A/Hong Kong/156/97 (H5N1) and A/Hong Kong/483/97 (H5N1), (antiserum, Sheep)

Catalog No. NR-665

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Contributor and Manufacturer:

NIH - Influenza Pandemic Preparedness in Asia Program

Product Description:

Antiserum to the H5 hemagglutinin (HA) from influenza virus A/Hong Kong/156/97 (H5N1) and A/Hong Kong/483/97 (H5N1)¹⁻⁴ was produced by immunization of sheep with the recombinant protein.

Material Provided:

Each vial contains lyophilized (0.5 mL) sheep polyclonal antiserum to the H5 HA from influenza virus A/Hong Kong/156/97 (H5N1) and A/Hong Kong/483/97 (H5N1).

Packaging/Storage:

The lyophilized antiserum was packaged aseptically, in glass serum vials with an aluminum crimp seal. The product is provided frozen and should be stored at -20°C to -40°C immediately upon arrival. At colder temperatures, the rubber stopper may become brittle and compromise the seal. **NR-665 should be reconstituted with 0.5 mL of sterile distilled water.** **Note: Reconstitution with PBS (per the vial label) will result in excess salt.** Reconstituted serum should be stored at -20°C to -40°C. Reconstituted serum may be thawed at room temperature (preferred) or at 37°C and may be re-frozen.

Functional Activity:

NR-665 is specific to the H5 HA subtype of influenza virus as determined in serological hemagglutination inhibition (HI) assays, **except for minor cross-reactivity with one H3 HA virus (A/New York/55/04).** This antiserum was raised against two H5 HA proteins and demonstrates broad reactivity within the H5 HA subtype with viruses representing both American and Eurasian lineages based on HI and ELISA assays. Applications: HI, ELISA, Western blot, virus neutralization test.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-Influenza Virus H5 Hemagglutinin (HA), A/Hong Kong/156/97 (H5N1) and A/Hong Kong/483/97 (H5N1), (antiserum, Sheep), NR-665."

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. Suarez, D. L., et al. "Comparisons of Highly Virulent H5N1 Influenza A Viruses Isolated from Humans and Chickens from Hong Kong." J. Virol. 72 (1998): 6678–6688. PubMed: 9658115. GenBank: AF046097.
2. Swayne, D. E., J. R. Beck, M. L. Perdue, and C. W. Beard. "Efficacy of Vaccines in Chickens Against Highly Pathogenic Hong Kong H5N1 Avian Influenza." Avian Dis. 45 (2001): 355–365. PubMed: 11417815.
3. Li, S., et al. "Recombinant Influenza A Virus Vaccines for the Pathogenic Human A/Hong Kong/97(H5N1) Viruses." J. Infect. Dis. 179 (1999): 1132–1138. PubMed: 10191214.
4. World Health Organization Global Influenza Program Surveillance Network. "Evolution of H5N1 Avian Influenza Viruses in Asia" Emerg. Infect. Dis. 11 (2005): 1303–1305.

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