Polyclonal Anti-Influenza Virus H1 (Hsw1) Hemagglutinin (HA), A/swine/Iowa/15/30 (H1N1), (antiserum, Goat)

The label for this reagent incorrectly indicates that it is antiserum against the Hsw1 (H1) HA protein of A/swine/Wisconsin/15/30.[1]

Catalog No. NR-3163

This reagent is the property of the U.S. Government.

Lot (NIAID Catalog) No. V-317-501-157

For research use only. Not for human use.

Contributor:

National Institutes of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH)

Product Description:

Reagent: Polyclonal antiserum
Host: Goat
Immunizing Antigen: Influenza Virus H1 (Hsw1) Hemagglutinin (HA), A/swine/Iowa/15/30 (H1N1)
Immunizing Antigen Treatment: None
Adjuvant: Freund's Complete Adjuvant

Note: BEI Resources was asked to distribute this virus preparation from NIAID's historical repository. Historical characterization information is shown below in the Functional Activity section.

Material Provided/Storage:

Content: Freeze-dried serum
Original Volume: 1.0 mL
Storage Temperature: 4°C

Functional Activity:

Hemagglutination Inhibition (HI):
Conditions: HI activity was determined as described.[1] Briefly, the dilutions of antisera were allowed to interact with antigen for 60 minutes at 20°C before the addition of chicken erythrocytes.
Titer to Isolated Subunits (old nomenclature in parentheses):
H1N1 (Hsw1N1) from A/swine/Iowa/15/30: 1:1280
H1N1 (H0N1) from A/Puerto Rico/8/34: 1:80
H1N1 (H0N1) from A/Bel/42: < 1:20
H1N1 (H1N1) from A/Fort Monmouth/1/47: 1:80
H2N2 (N2) from A/Singapore/1/57: < 1:20
H3N2 from A/Hong Kong/1/68: 1:20
H7N7 (Heq1Neq1) from A/equine/Prague/1/56: < 1:20
H3N8 (Heq2Neq2) from A/equine/Miami/1/63: < 1:20
H7N7 (Hav1Nav2) from A/FPV/Dutch/27: < 1:20
H10N7 (Hav2Neq2) from A/chicken/Germ/N/49: < 1:20
H11N6 (Hav3Nav1) from A/duck/England/56: < 1:20
H4N6 (Hav4Nav1) from A/duck/Czech/56: < 1:20
H5N3 (Hav5Nav2) from A/tern/South Africa/61: < 1:20
H6N2 (Hav6N2) from A/turkey/Mass/65: < 1:20
H3N8 (Hav7Neq2) from A/duck/Ukraine/1/63: < 1:20
H8N4 (Hav8Nav4) from A/turkey/Ontario/6118/68: < 1:20
Double Immunodiffusion:
Conditions: Hyland double immunodiffusion plates after disruption of purified virus with SDS[2]
Positive Reaction:
H1 (Hsw1)
Negative Reaction:
Ribonucleoprotein (RNP)
Single Radial Diffusion:
Negative Reaction:
Matrix protein

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-Influenza Virus H1 (Hsw1) Hemagglutinin (HA), A/swine/Iowa/15/30 (H1N1), (antiserum, Goat), NR-3163."

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. NIAID. "NIAID Resources for Influenza Research". (1998): www.kamtekinc.com/pdfdoc/niaidfc.pdf.
2. Fazekas de St. Groth, S. and R. G. Webster. "Disquisitions on Original Antigenic Sin. I. Evidence in Man." J. Exp. Med. 124 (1966): 331–345. PubMed: 5922742.
3. Schild, G. C. and H. G. Pereira. "Characterization of the Ribonucleoprotein and Neuraminidase of Influenza A Viruses by Immunodiffusion." J. Gen. Virol. 4 (1969): 355–363. PubMed: 4977660.

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