

### **Polyclonal Anti-Influenza Virus N1 Neuraminidase (NA), A/New Jersey/8/76 (H1N1), (antiserum, Goat)**

**The label for this reagent incorrectly indicates that it is antiserum against the Heq1 (H7) HA protein and the N1 NA protein of recombinant A/equine/Prague/1/56 (Heq1)NewJersey/8/76 (N1).<sup>1</sup>**

### **Catalog No. NR-3136**

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

### **Lot (NIAID Catalog) No. V-308-513-157**

**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 N1 Neuraminidase (NA),  
A/New Jersey/8/76 (H1N1)

Adjuvant: Freund's Complete Adjuvant

#### **Material Provided/Storage:**

Content: Freeze-dried serum

Original Volume: 1.0 mL

Storage Temperature: 4°C

#### **Functional Activity:**

##### Neuraminidase Inhibition (NI):

Conditions: Neuraminidase (NA) activity was assayed by the method of Warren<sup>1</sup>, except that the color was extracted into *n*-butanol containing 5% (v/v) concentrated hydrochloric acid.<sup>2</sup> NI tests were performed as described.<sup>3</sup> To preclude steric inhibition in the NI tests, an antigenic hybrid possessing an irrelevant hemagglutinin (HA) subunit was used.

##### Titer to Isolated Subunits (old nomenclature in parentheses):

H1N1 (H0N1) from A/New Jersey/8/76: 1:300

H2N2 (N2) from A/Singapore/1/57: < 1:20

H7N7 (Heq1Neq1) from A/equine/Prague/1/56: 1:10

H3N8 (Heq2Neq2) from A/equine/Miami/1/63: < 1:20

H11N6 (Hav3Nav1) from A/duck/England/56: < 1:20

H5N3 (Hav5Nav2) from A/tern/South Africa/61: < 1:20

H8N5 (Hav8Nav4) from A/turkey/Ontario/6118/68: < 1:20

#### Double Immunodiffusion:

Conditions: Hyland double immunodiffusion plates after disruption of purified virus with SDS<sup>4</sup>

#### Positive Reaction:

N1, Ribonucleoprotein (RNP)

#### Cross Reaction:

Unrelated HA H7 (Heq1) antigen

#### Single Radial Diffusion:

#### Positive Reaction:

Matrix protein

#### **Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Polyclonal Anti-Influenza Virus N1 Neuraminidase (NA), A/New Jersey/8/76 (H1N1), (antiserum, Goat), NR-3136."

#### **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/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

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### References:

1. NIAID. "NIAID Resources for Influenza Research". (1998): [www.kamtekinc.com/pdfdoc/niaidfc.pdf](http://www.kamtekinc.com/pdfdoc/niaidfc.pdf).
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3. Aminoff, D. "Methods for the Quantitative Estimation of N-acetylneuraminic Acid and their Application to Hydrolysates of Sialomucoids." Biochem. J. 81 (1961): 384–392. PubMed: 13860975.
4. Webster, R. G. and H. G. Pereira. "A Common Surface Antigen in Influenza Viruses from Human and Avian Sources." J. Gen. Virol. 3 (1968): 201–208. PubMed: 5698682.
5. 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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