

**Polyclonal Anti-Influenza Virus N9 Neuraminidase (NA), A/tern/Australia/G70C/1975 (H11N9), (antiserum, Goat)**

**Catalog No. NR-667**

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**For research use only. Not for human use.**

**Contributor and Manufacturer:**

NIH - Influenza Pandemic Preparedness in Asia Program

**Product Description:**

Antiserum to the N9 neuraminidase (NA) from influenza virus A/tern/Australia/G70C/1975 (H11N9)<sup>1-3</sup> was produced by immunization of goat with the recombinant protein.

**Material Provided:**

Each vial contains lyophilized (0.5 mL) goat polyclonal antiserum to the N9 NA from influenza virus A/tern/Australia/G70C/1975 (H11N9). **Note: The strain designation on the vials is incorrect. The vials should be labeled influenza virus, A/tern/Australia/G70C/1975 (H11N9) rather than A/tern/Australia/G70C/75 (H1N9).**

**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-667 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-667 is specific to the N9 NA subtype of influenza virus as determined in serological neuraminidase inhibition (NI) assays. NR-667 demonstrates broad reactivity within the N9 NA subtype, including both North American and Eurasian N9 NA isolates, based on NI and ELISA assays. Applications: NI, 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 N9 Neuraminidase (NA), A/tern/Australia/G70C/1975 (H11N9), (antiserum, Goat), NR-667."

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Air, G.M., R. G. Webster, P. M. Colman, and W. G. Laver. "Distribution of Sequence Differences in Influenza N9 Neuraminidase of Tern and Whale Viruses and Crystallization of the Whale Neuraminidase Complexed with Antibodies." Virology 160 (1987): 346-354. PubMed: 3660585. GenBank: M17813.
2. Kati, W. M., et al. "In Vitro Characterization of A-315675, a Highly Potent Inhibitor of A and B Strain Influenza Virus

Neuraminidases and Influenza Virus Replication.”  
Antimicrob. Agents Chemother. 46 (2002): 1014–1021.  
PubMed: 11897583.

3. Pruetz, P. S. and G. M. Air. “Critical Interactions in Binding Antibody NC41 to Influenza N9 Neuraminidase: Amino Acid Contacts on the Antibody Heavy Chain.”  
Biochemistry 37 (1998): 10660–10670. PubMed: 9692956.

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