

Polyclonal Anti-Sin Nombre Virus, SN77734 Nucleocapsid Protein (antiserum, Deer Mouse)

Catalog No. NR-9676

For research use only. Not for human use.

Contributor:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Product Description:

Polyclonal antiserum to the nucleocapsid (N) protein of the SN77734 strain of Sin Nombre virus was produced by immunization of deer mice (*Peromyscus maniculatus*) with Sin Nombre virus recombinant N protein in PBS buffer with Complete Freund's Adjuvant for the primary immunization and with Incomplete Freund's Adjuvant for the subsequent immunizations. NR-9676 is intended to serve as a positive control antiserum against any of the hantaviruses that are carried by sigmodontine or cricetid rodents.

Material Provided:

Each vial contains approximately 0.25 mL of NR-9676. No preservative has been added.

Packaging/Storage:

NR-9676 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder for prolonged storage. The titers of NR-9676 are high enough that for routine usage such as a positive control in serologic testing, one can dilute it 1:500 in PBS before use in detection of SNV N antigen. The diluted antibodies can then be stored for up to 3 years at 4°C (especially in the presence of 0.01% sodium azide). Repeated freeze/thaw cycles are not recommended.

Functional Activity:

NR-9676 is reactive with the N protein of the SN77734 strain of Sin Nombre virus (available as BEI Resources NR-9670) as determined by Strip Immunoblot Assay (SIA). Note: ELISA titers may be lower than SIA titers.

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-Sin Nombre Virus, SN77734 Nucleocapsid Protein (antiserum, Deer Mouse), NR-9676."

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.

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References:

1. Hjelle, B., et al. "Rapid and Specific Detection of Sin Nombre Virus Antibodies in Patients with Hantavirus Pulmonary Syndrome by a Strip Immunoblot Assay Suitable for Field Diagnosis." *J. Clin. Microbiol.* 35 (1997): 600-608. PubMed: 9041397.
2. Yee, J., et al. "Rapid and Simple Method for Screening Wild Rodents for Antibodies to Sin Nombre Hantavirus." *J. Wildl. Dis.* 39 (2003): 271-277. PubMed: 12910753.
3. Botten, J., et al. "Experimental Infection Model for Sin Nombre Hantavirus in the Deer Mouse (*Peromyscus maniculatus*)." *Proc. Natl. Acad. Sci. U. S. A.* 97 (2000): 10578-10583. PubMed: 10973478.

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