

**Monoclonal Anti-Langat Virus  
Nonstructural Protein 1 (NS1), Clone 5D9  
(produced *in vitro*)**

**Catalog No. NR-40304**

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

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG2ak

Mouse monoclonal antibody prepared against the Langat virus (LGTV) nonstructural protein 1 (NS1) was purified from clone 5D9 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 mouse myeloma cells with splenocytes from mice inoculated with LGTV-infected mouse brain suspensions as described by Iacono-Connors et al.<sup>1</sup>

This reagent is part of the Joel M. Dalrymple – Clarence J. Peters USAMRIID Antibody Collection.

**Material Provided:**

Each vial of NR-40304 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**

NR-40304 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-40304 is reactive in indirect immunofluorescence and western blot assays using LGTV-infected Vero cells. See Certificate of Analysis for details. This antibody is also reported to function in ELISA, to specifically recognize LGTV NS1 protein in immunoprecipitation assays, and to cross-react on Hypr virus, Kyasanur Forest disease virus, Negishi virus, Omsk hemorrhagic fever virus, Powassan virus, and Sofyn virus.<sup>1</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained from the Joel M. Dalrymple – Clarence J. Peters USAMRIID Antibody Collection through BEI Resources, NIAID, NIH: Monoclonal Anti-Langat Virus

Nonstructural Protein 1 (NS1), Clone 5D9 (produced *in vitro*), NR-40304.”

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Iacono-Connors, L. C., et al. “Characterization of Langat Virus Antigenic Determinants Defined by Monoclonal Antibodies to E, NS1 and pre-M and Identification of a Protective, Non-Neutralizing preM-Specific Monoclonal Antibody.” Virus Res. 43 (1996): 125-136. PubMed: 8864202.

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