

Monoclonal Anti-Langat Virus Envelope Glycoprotein (E), Clone 5G5 (produced *in vitro*)

Catalog No. NR-40318

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

Product Description: Mouse monoclonal antibody prepared against the Langat virus (LGTV) envelope glycoprotein was purified from clone 5G5 hybridoma supernatant using protein G magnetic beads.

Lot: 61444343

Manufacturing Date: 27FEB2013

| TEST | SPECIFICATIONS | RESULTS |
|---|--|---|
| Antibody Class Determination | IgG2ak | IgG2ak |
| Experion Pro260 Analysis | Correct molecular weight (MW) for heavy and light chains Report results | Correct MW for heavy and light chains 99.6% pure |
| Concentration by Spectrophotometer at OD ₂₈₀ | Report results | 0.7 mg per mL |
| Functional Activity ¹ Indirect immunofluorescence assay (IFA) ² Western blot ³ | Report results Report results | Fluorescence observed Reactive |
| Sterility | 0.22 µm filter-sterilized | 0.22 µm filter-sterilized |

¹Testing was performed at Rocky Mountain Laboratories, NIAID, NIH. Methods used were essentially as described in Best, S. M., et al., "Inhibition of Interferon-Stimulated JAK-STAT Signaling by a Tick-Borne Flavivirus and Identification of NS5 as an Interferon Antagonist." *J. Virol.* 79 (2005): 12828-12839. PubMed: 16188985.

²Vero cells were infected with LGTV strain TP21 at an MOI of 3 and stained 48 hours later with a 1:1000 dilution of NR-40318 followed by AlexaFluor-conjugated secondary antibody.

³Vero cells were infected with LGTV strain TP21 at an MOI of 3 and cell lysates were prepared 48 hours later. Blots were probed with a 1:1000 dilution of NR-40318 followed by horseradish peroxidase-conjugated secondary antibody.

Date: 23 DEC 2013

Signature: 

Title: Technical Manager, BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® and the delegated laboratory to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

