

Monoclonal Anti-Langat Virus Envelope Glycoprotein (E), Clone 10F6 (produced *in vitro*)

Catalog No. NR-40316

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 10F6 hybridoma supernatant by protein G affinity chromatography.

Lot: 61444344

Manufacturing Date: 28FEB2013

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 99.4% pure
Concentration by Spectrophotometer at OD ₂₈₀	Report results	1.3 mg per mL
Functional Activity ¹ Indirect immunofluorescence assay (IFA) ² Western blot ⁴	Report results Report results	Fluorescence observed ³ 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-40316 followed by AlexaFluor-conjugated secondary antibody.

³Fluorescence was observed in IFA done at BEI Resources with Powassan virus (POW), M11665 (BEI Resources NR-51182) and POW, T18-23-81 (BEI Resources NR-51183)-infected Vero cells (ATCC® CCL-81™) and 1:100 and 1:300 dilutions of NR-40316.

⁴Vero 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-40316 followed by horseradish peroxidase-conjugated secondary antibody.

/Heather Couch/

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25 APR 2019

Program Manager or designee, ATCC Federal Solutions

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