

Monoclonal Anti-*Leishmania pifanoi*, Strain LtRod-CI-A3 (MHOM/VE/60/LtRod-CI-A3), Clone P-4 (produced *in vitro*)

Catalog No. NR-50156

Product Description: Antibody Class: IgG1k

Mouse monoclonal antibody prepared against *Leishmania pifanoi* (*L. pifanoi*) strain LtRod-CI-A3 (MHOM/VE/60/LtRod-CI-A3) was purified from the hybridoma supernatant by protein G affinity chromatography.

Lot¹: 70016413

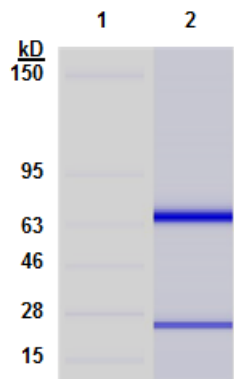
Manufacturing Date: 17JUL2018

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG1k
Agilent® Protein 230 Analysis Average Purity	Correct molecular weight (MW) for heavy and light chains Report results	Correct MW for heavy and light chains (Figure 1) 99.2% pure
Concentration by Spectrophotometer at OD₂₈₀	≥ 1.0 mg per mL	1.3 mg per mL
Functional Activity by Immunofluorescence Assay² <i>L. pifanoi</i> -infected mouse macrophage cells with NR-50156 <i>L. pifanoi</i> -infected mouse macrophage cells with fluorescein isothiocyanate (FITC)-conjugated goat anti-mouse IgG	Reactive Nonreactive	Reactive; staining of <i>Leishmania</i> promastigotes (Figure 2) Nonreactive; no specific staining of <i>Leishmania</i> promastigotes (Figure 2)
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

¹Mouse monoclonal antibody was purified using protein G affinity chromatography from supernatants obtained from mouse hybridoma adapted to serum-free media.

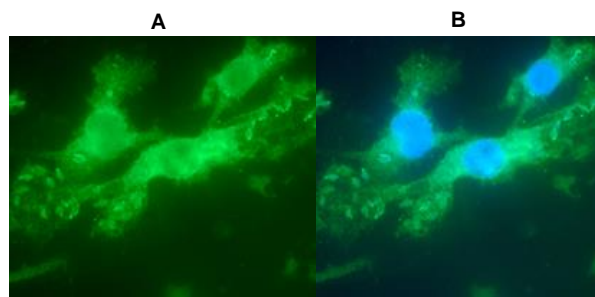
²Specific labeling of *L. pifanoi* promastigotes with NR-50156 and FITC was observed after culturing of *L. pifanoi*, (MHOM/VE/57/LL1) (ATCC® 50123™ lot 125515) for 2 days (Figure 2A). NR-50156 was used at a dilution of 1:500, followed by FITC-conjugated goat anti-mouse IgG (Invitrogen® A16073) as secondary antibody (1:2000). The overlaid 4',6-diamidino-2-phenylindole (DAPI)-stained image is shown in Figure 2B.

Figure 1: Agilent® Protein 230 Analysis



Lane 1: Protein 230 Ladder
Lane 2: NR-50156

Figure 2: Immunofluorescence Assay of *Leishmania* Promastigotes



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16 JAN 2019

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