

Monoclonal Anti-*Leishmania amazonensis*, Strain LTB0016 (MHOM/BR/77/LTB0016), Clone FLAG-1/F-4 (produced *in vitro*)

Catalog No. NR-50154

Product Description: Antibody Class: IgG1k

Mouse monoclonal antibody prepared against *Leishmania amazonensis* (*L. amazonensis*), strain LTB0016 (MHOM/BR/77/LTB0016), clone FLAG-1/F-4 was purified from the hybridoma supernatant by protein G affinity chromatography.

Lot¹: 70013686

Manufacturing Date: 05APR2018

| 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) 93.1% pure |
| Concentration by Spectrophotometer at OD₂₈₀ | ≥ 1.0 mg per mL | 1.3 mg per mL |
| Functional Activity by Immunofluorescence Assay² <i>L. amazonensis</i> promastigotes with NR-50154 <i>L. amazonensis</i> promastigotes 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 |
| 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 clone FLAG-1/F-4 adapted to serum-free media.

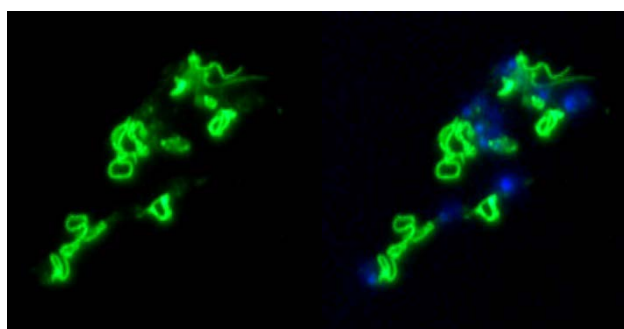
²Specific labeling of *L. amazonensis* promastigotes with NR-50154 and FITC was observed after culturing of *L. amazonensis*, strain LV78 (+*bla*) (BEI Resources NR-49247 lot 63769236) for 4 days (Figure 2A). NR-50154 was used at a dilution of 1:500, followed by FITC-conjugated goat anti-mouse IgG (Invitrogen® 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-50154

Figure 2: Immunofluorescence Assay of *Leishmania* Promastigotes



2A

2B

/Heather Couch/
Heather Couch

31 OCT 2018

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