

Monoclonal Anti-Toxoplasma gondii Surface Antigen 4 Protein, Clone T8 3B1 (produced *in vitro*)

Catalog No. NR-50271

Product Description:

Antibody Class: IgMk

Mouse monoclonal antibody prepared against the surface antigen 4 (SAG4) protein of *Toxoplasma gondii* (*T. gondii*), clone T8 3B1 was purified from the hybridoma supernatant by thiophilic affinity chromatography.

Lot: 70002909¹

Manufacturing Date: 17MAY2017

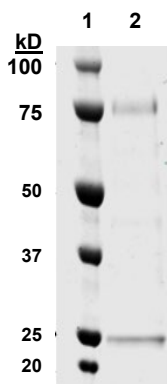
| TEST | SPECIFICATIONS | RESULTS |
|--|--|--|
| Antibody Class Determination | Report results | IgMk |
| SDS-PAGE Analysis | Correct molecular weight for heavy chain (~ 75 kD) and light chain (~ 25 kD) | Correct molecular weight for heavy and light chains (Figure 1) |
| Average Purity | Report results | 100% pure ² |
| Concentration by Spectrophotometer at OD ₂₈₀ | ≥ 1.0 mg per mL | 1.2 mg per mL |
| Functional Activity by Immunofluorescence Assay ³ <i>T. gondii</i> -infected human skin fibroblast cells with NR-50271 | Reactive | Reactive; immunostaining of tachyzoites within parasitophorous vacuoles (Figure 2) |
| <i>T. gondii</i> -infected human skin fibroblast cells with fluorescein isothiocyanate (FITC)-conjugated goat anti-mouse IgG | Nonreactive | Nonreactive; no specific staining of parasites |
| Sterility | 0.22 µm filter-sterilized | 0.22 µm filter-sterilized |

¹Mouse monoclonal antibody was purified by thiophilic affinity chromatography using Pierce™ Thiophilic Adsorption Kit (Thermo Scientific™ 44916) from supernatants obtained from mouse hybridoma clone T8 3B1 adapted to serum-free media.

²Purity assessed by densitometry using LI-COR Odyssey® imaging system.

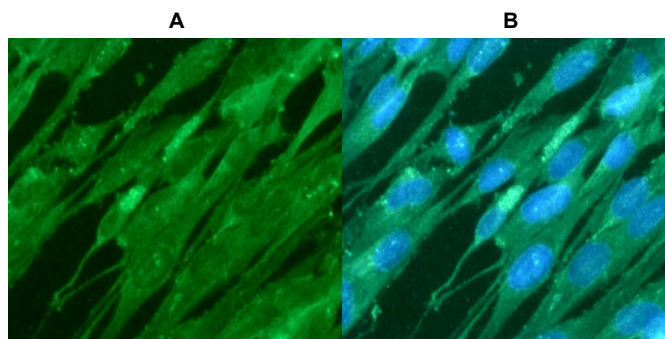
³Specific labeling of *T. gondii* cells with NR-50271 and FITC was observed after infection of human skin fibroblast cells (Hs27; ATCC® CRL-1634™) with *T. gondii* (ATCC® PRA-310™) for 1 day.

Figure 1: SDS-PAGE Analysis



Lane 1: Bio-Rad Precision Plus™ Protein Standard
Lane 2: NR-50271, 5 µg

Figure 2: Immunofluorescence Assay of *T. gondii*-Infected Fibroblast Cells



2A: *T. gondii*-infected human skin fibroblast cells with NR-50271 used at a dilution of 1:500, followed by FITC-conjugated goat anti-mouse IgG (Invitrogen® A16073) as secondary antibody (1:2000).

2B: Image from Figure 2A with overlaid 4',6-diamidino-2-phenylindole (DAPI)-stained image.

/Heather Couch/

Heather Couch

Program Manager or designee, ATCC Federal Solutions

26 JAN 2020

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