

Monoclonal Anti-*Toxoplasma gondii* Bradyzoite-Specific Protein P34, Clone T8 2C2 (produced *in vitro*)

Catalog No. NR-50270

Product Description: Antibody Class: IgG1κ

Mouse monoclonal antibody prepared against the bradyzoite-specific protein P34 of *Toxoplasma gondii* (*T. gondii*) clone T8 2C2 was purified from the hybridoma supernatant by protein G affinity chromatography.

Lot¹: 70002908

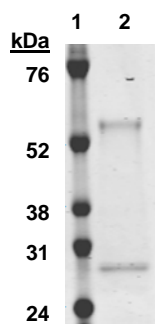
Manufacturing Date: 26APR2017

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG1κ
SDS-PAGE Analysis Average Purity	Correct molecular weight for heavy and light chains Report results	Correct molecular weight for heavy and light chains (Figure 1) 100% pure
Concentration by Spectrophotometer at OD₂₈₀	≥ 1.0 mg per mL	1.2 mg per mL
Functional Activity by Immunofluorescence Assay² <i>T. gondii</i> -infected human skin fibroblast cells with NR-50270 <i>T. gondii</i> -infected human skin fibroblast cells with FITC-conjugated goat anti-mouse IgG	Reactive Nonreactive	Reactive; staining of bradyzoites within cysts (Figure 2) Nonreactive; no specific staining of parasites
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 T8 2C2 adapted to serum-free media.

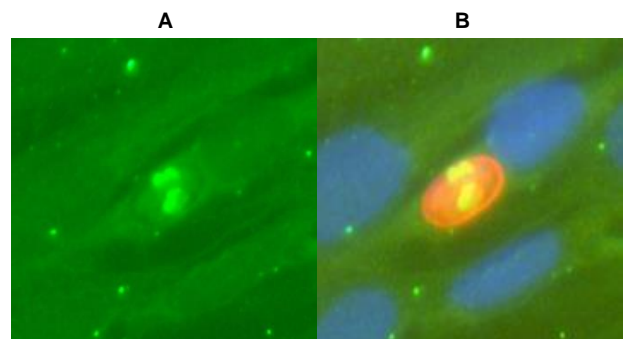
²Specific labeling of *T. gondii* cells with NR-50270 and FITC was observed after infection of human skin fibroblast cells (ATCC® CRL-1634™) with *T. gondii* (BEI Resources NR-362).

Figure 1: SDS-PAGE Analysis



Lane 1: GE Healthcare Rainbow™ Marker
Lane 2: NR-50270

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



2A: *T. gondii*-infected human skin fibroblast cells with NR-50266 was 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 and rhodamine-labeled *Dolichos biflorus* agglutinin-stained images. Cysts were stained with rDBA (Vector Labs RL-1032) at a concentration of 20 μg per mL.

/Heather Couch/

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28 SEP 2018

Program Manager or designee, ATCC Federal Solutions

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