

Monoclonal Anti-*Toxoplasma gondii* Glycosylphosphatidylinositol Anchor, Clone T5 4E10 (ascites, Mouse)

Catalog No. NR-50267

Product Description:

Antibody Class: IgMk

Mouse monoclonal antibody prepared against the glycosylphosphatidylinositol (GPI) anchor of *Toxoplasma gondii* (*T. gondii*), clone T5 4E10 was purified from ascites fluid by mannan binding protein affinity chromatography.

Lot: 70002905¹

Manufacturing Date: 20OCT2017

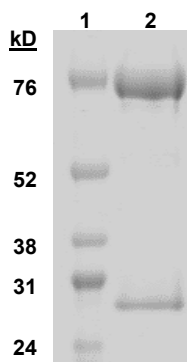
TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgMk
SDS-PAGE Analysis	Correct molecular weight for heavy and light chains	Correct molecular weight for heavy and light chains (Figure 1)
Average Purity	Report results	100% pure ²
Concentration by Spectrophotometer at OD₂₈₀	≥ 1.0 mg per mL	1.1 mg per mL
Functional Activity by Immunofluorescence Assay³		
<i>T. gondii</i> -infected human skin fibroblast cells with NR-50267	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 from ascites fluid by mannan binding protein affinity chromatography using Pierce™ IgM Purification Kit (Thermo Scientific™ 44897).

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

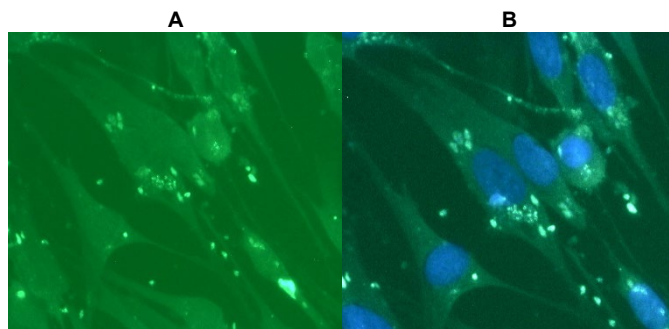
³Specific labeling of *T. gondii* cells with NR-50267 and FITC was observed after infection of human skin fibroblast cells (ATCC® CRL-1634™) with *T. gondii* (ATCC® PRA-310™) for 1 day.

Figure 1: SDS-PAGE Analysis



Lane 1: GE Healthcare Rainbow™ Marker
Lane 2: NR-50267

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



2A: *T. gondii*-infected human skin fibroblast cells with NR-50267 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

09 DEC 2019

Program Manager or designee, ATCC Federal Solutions

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