

Monoclonal Anti-Toxoplasma gondii Bradyzoite-Specific Protein P21, Clone T8 4G10 (produced in vitro)

Catalog No. NR-50273

Product Description: Antibody Class: IgG2bk

Mouse monoclonal antibody prepared against the bradyzoite-specific protein P21 of *Toxoplasma gondii* (*T. gondii*) clone T8 4G10 was purified from the hybridoma supernatant by protein G affinity chromatography.

Lot¹: 70004800

Manufacturing Date: 08JUN2017

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2bk
Experion Pro260 Analysis Average Purity	Correct molecular weight (MW) for heavy and light chains Report results	Correct MW for heavy and light chains (Figure 1) 91.6% pure
Concentration by Spectrophotometer at OD₂₈₀	≥ 1.0 mg per mL	1.1 mg per mL
Functional Activity by Immunofluorescence Assay² <i>T. gondii</i> -infected human skin fibroblast cells with NR-50273 <i>T. gondii</i> -infected human skin fibroblast cells with fluorescein isothiocyanate (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 4G10 adapted to serum-free media.

²Specific labeling of *T. gondii* cells with NR-50273 and FITC was observed after infection of human skin fibroblast cells (ATCC® CRL-1634™) with *T. gondii* (BEI Resources NR-362) (Figure 2A). NR-50273 was used at a dilution of 1:500, followed by FITC-conjugated goat anti-mouse IgG (Invitrogen® A16073) as secondary antibody (1:2000). Cysts were stained with rhodamine-labeled *Dolichos biflorus* agglutinin (Vector Labs RL-1032) at a concentration of 20 µg per mL; the overlaid 4',6-diamidino-2-phenylindole (DAPI)-stained image is shown in Figure 2B.

Figure 1: Experion Pro260 Analysis

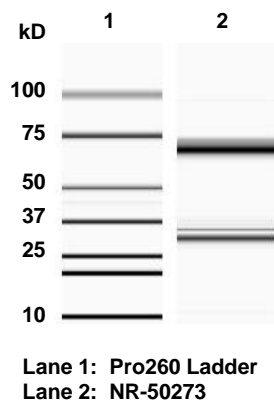
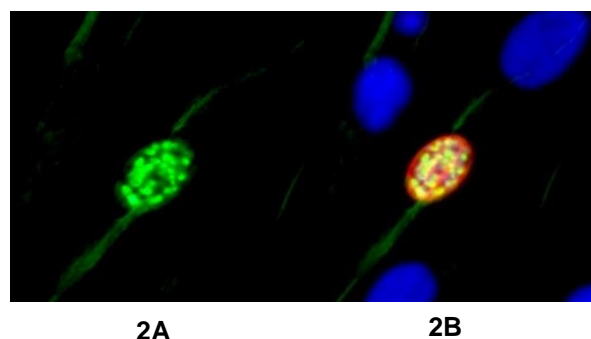


Figure 2: Immunofluorescence Assay of *T. gondii* Infected Fibroblast Cells



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