

Monoclonal Anti-*Toxoplasma gondii* Surface Antigen 3 Protein, Clone T4 1F12 (produced *in vitro*)

Catalog No. NR-50257

Product Description: Antibody Class: IgG2ak

Mouse monoclonal antibody prepared against the surface antigen 3 (SAG3) protein of *Toxoplasma gondii* (*T. gondii*) clone T4 1F12 was purified from the hybridoma supernatant by protein G affinity chromatography.

Lot¹: 70000299

Manufacturing Date: 07FEB2017

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2ak
Experion Pro260 Analysis Average Purity	Correct molecular weight (MW) for heavy and light chains Report results	Correct molecular weight (MW) for heavy and light chains (Figure 1) 98.0% 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-50257 <i>T. gondii</i> infected human skin fibroblast cells with FITC-conjugated goat anti-mouse IgG	Reactive Nonreactive	Reactive; specific staining of tachyzoites in parasitophorous vacuole (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 T4 1F12 adapted to serum-free media.

²Specific labeling of *T. gondii* cells with NR-50257 and FITC was observed after infection of human skin fibroblast cells (ATCC® CRL-1634™) with *T. gondii* (ATCC® PRA-310™). NR-50257 was used at a dilution of 1:500, followed by FITC-conjugated goat anti-mouse IgG (Invitrogen® A16073) as secondary antibody (1:2000).

Figure 1: Experion Pro260 Analysis

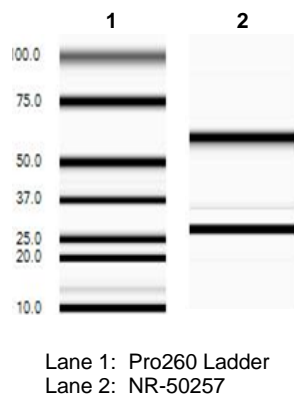
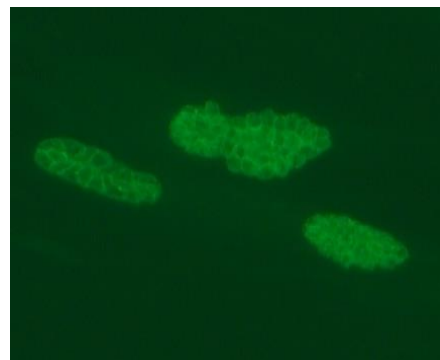


Figure 2: Immunofluorescence Assay of *T. gondii* Infected Fibroblast Cells



Date: 19 SEP 2017

Signature: 

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