

Monoclonal Anti-*Cryptosporidium parvum*, Clone 1A5, asexual stages (produced *in vitro*)

Catalog No. NR-59770

Product Description:

Antibody Class: IgG1

Mouse monoclonal antibody was prepared against a 125 kDa protein of *Cryptosporidium parvum* (*C. parvum*), reported to be present in all asexual stages of the life cycle, and purified from clone 1A5 hybridoma supernatant using protein G affinity chromatography. NR-59770 was produced from BEI Resources lot 70068968 adapted to serum-free media.

Lot: 70068973

Manufacturing Date: 27SEP2024

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG1κ
Agilent® Protein 230 Analysis	Correct molecular weight (MW) for heavy and light chains; Report purity	Correct molecular weight (MW) for heavy and light chains (Figure 1); 100% pure
Functional Activity by Indirect Immunofluorescence Assay (IFA) ¹ NR-59770 Secondary antibody alone	Report results Report results	Fluorescence observed (Figure 2A) No fluorescence observed (Figure 2B)
Concentration by Spectrophotometer at OD ₂₈₀	~ 1 mg/mL	0.68 mg/mL ²
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

¹Immunofluorescence staining of asexual stages of *Cryptosporidium parvum* was performed in infected Hct-8 cells (ATCC® CCL-244™) using a 1:500 dilution of primary antibody (NR-59770) followed by a 1:2000 dilution of secondary antibody [Alexa Fluor® 488 goat anti-mouse IgG (Invitrogen™ A-11001)]. Green fluorescence was observed in parasite intracellular stages. Nuclei were stained blue with 4',6-diamidino-2-phenylindole (DAPI).

²The concentration falls below the current specification but does not negatively impact the final product. The user should determine the optimal concentration and dilution of the antibody in a specific application.

Figure 1: Agilent® Protein 230 Analysis

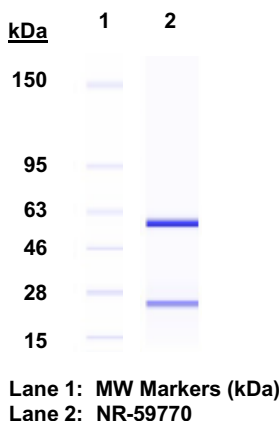
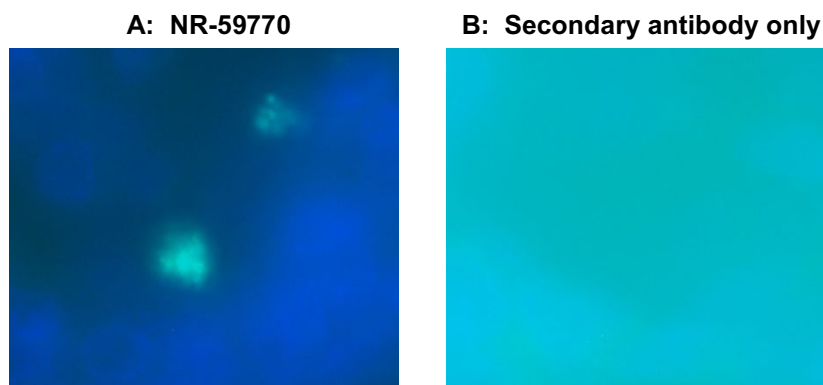


Figure 2: Indirect Immunofluorescence Analysis of *C. parvum* Sporozoites



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