

Monoclonal Anti-*Cryptosporidium parvum*, Clone 1A12, asexual stages (produced *in vitro*)
Catalog No. NR-59764
Product Description:

Antibody Class: IgG2b

Mouse monoclonal antibody was prepared against a protein reported to be present in asexual stages of the life cycle of *Cryptosporidium parvum* (*C. parvum*) and purified from clone 1A12 hybridoma supernatant using protein G affinity chromatography. NR-59764 was produced from BEI Resources lot 70068965 adapted to serum-free media.

Lot: 70068970
Manufacturing Date: 12SEP2024

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2bk
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); 98.03% pure
Functional Activity by Indirect Immunofluorescence Assay (IFA) ¹ NR-59764 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	1.4 mg/mL
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-59764) 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).

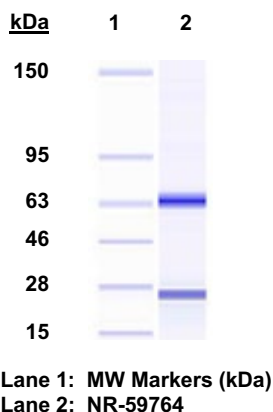
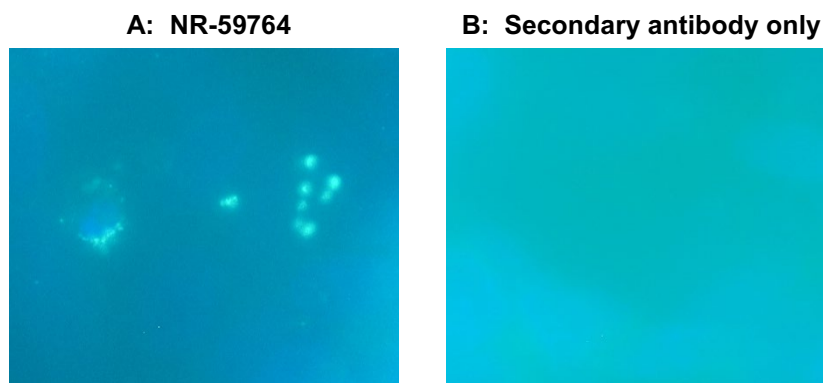
Figure 1: Agilent® Protein 230 Analysis


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



/Sonia Bjorum Brower/
Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

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