



Mouse Anti-Giardia lamblia Cysts Monoclonal Antibody, clone MN124 (CABT-NS1507)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	No reactivity with Cryptosporidium, E. coli, Shigella species, Salmonella species, K. pneumoniae, E. faecium, Y. enterocolitica, HSV-1, T. gondii
Target	G. lamblia Cysts
Immunogen	Native G. lamblia cysts
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	G. lamblia
Purification	Protein A
Conjugate	unconjugated
Applications	ELISA, LFIA, WB, IF
Format	Liquid
Size	1 mg
Buffer	10 mM Phosphate Buffered Saline, pH 7.2
Preservative	0.1% Sodium Azide
Storage	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.

BACKGROUND

Introduction

Giardia duodenalis, also known as *Giardia intestinalis* and *Giardia lamblia*, is a flagellated parasitic microorganism of the genus *Giardia* that colonizes the small intestine, causing a diarrheal condition known as giardiasis. The parasite attaches to the epithelium by a ventral adhesive disc or sucker, and reproduces via binary fission. Giardiasis does not spread via the bloodstream, nor does it spread to other parts of the gastrointestinal tract, but remains confined to the lumen of the small intestine. *Giardia* has an outer membrane that makes it possible to retain life, even when outside of the host body, and which can make it tolerant to chlorine disinfection. *Giardia* trophozoites absorb their nutrients from the lumen, and are anaerobes. If the organism is split and stained, its characteristic pattern resembles the familiar "smiley face" symbol.

Chief pathways of human infection include ingestion of untreated drinking water (which is the most common method of transmission for this parasite), food, and soil contaminated with human feces, as well as ingestion of sewage, a phenomenon particularly common in many developing countries. Contamination of natural waters also occurs in watersheds where intensive grazing occurs.

Giardia infections occur worldwide. It is the most commonly identified intestinal parasite in the United States and Canada among children in day-care centers, hikers, family members, and immunocompromised adults. About 20,000 cases per year in the United States are reported.

Keywords

Giardia lamblia Cysts; *G. lamblia* Cysts; *G. lamblia*; Cysts; *Giardia lamblia*; *Giardia*; *lamblia*; *Giardia intestinalis*; Hexamitidae
