

12-8558: Anti-Entamoeba Histolytica (Clone EH147.5) [IgM Isotype]

Clonality :	Monoclonal
Clone Name :	EH147.5
Application :	ELISA
Alternative Name :	E. histolytica
Isotype :	Mouse IgM
Immunogen Information :	Entamoeba histolytica HK-9

Description

Specificity

These antibodies recognize *Entamoeba histolytica* trophozoites and cysts.

Background

Entamoeba histolytica is an anaerobic parasitic protozoan that predominantly infects humans and other primates causing amoebiasis. In the vast majority of cases, infection is asymptomatic and the carrier is unaware they are infected. However, in an estimated 10% of cases *E. histolytica* causes disease. Once the trophozoites are excysted they colonize the large bowel, remaining on the surface of the mucus layer and feeding on bacteria and food particles. Occasionally, and in response to unknown stimuli, trophozoites move through the mucus layer where they come in contact with the epithelial cell layer and start the pathological process.

Product Info

Amount :	500ug / 100ug
Purification :	Product Preparation: Preparing IgM antibodies presents a unique set of challenges compared to standard IgG molecules. Because IgMs are massive pentameric structures (approximately 900 kDa), they are highly sensitive to shear stress, precipitation, and aggregation.
Content :	Product Concentration: Lot Specific Formulation: This monoclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.2 - 7.4 with no carrier protein or preservatives added.
Storage condition :	This antibody is stable for at least one (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

Application Note

This antibody has been qualified for use in ELISA to detect *E. histolytica* trophozoites and cysts.

End users should determine optimal concentrations for their applications.

All IgM isotype clones undergo strict analytical validation to ensure it meets our rigorous product specification (PSDs) for diagnostic raw materials or research use specifications. Every lot is verified for:

- Structural Integrity: Analyzed via SDS-PAGE and FPLC to confirm pentameric purity.
- Ultra-Clean Formulation: Delivered in PBS (pH 7.2-7.4) entirely carrier-free (no BSA or gelatin) and preservative-free (no sodium azide), ensuring it is instantly ready for custom conjugation or assay integration.