



Mouse Anti-Albendazole monoclonal antibody, clone ABZ2 (CABT-L3042)

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

PRODUCT INFORMATION

Antigen Description	Anthelmintics or anti-helminthics are a class of drugs that are effective against a range of intestinal parasitic worms (helminths). Parasitic helminths must maintain an appropriate feeding site. Nematodes and trematodes must actively ingest and move food through their digestive tracts to maintain an appropriate energy state; these together with reproductive processes require a well defined and developed neuromuscular coordination. Anthelmintic treatment is a multi-targeting system designed to interfere with the integrity of parasite cells. The pharmacologic basis of the treatment for helminths involves the targeting of neuromuscular coordination, or protective mechanisms against host immunity, which lead to starvation, paralysis, and expulsion of the parasite. The benzimidazole class of drugs were introduced in 1961 and interfere with the parasite's ATP pathway on a cellular level. They bind to a specific building block called b-tubulin and prevent its incorporation into certain cellular structures called microtubules, which are essential for energy metabolism.
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Specificity	Cross reactivity: ABZSO 2ppb,ABZSO2 1ppb
Immunogen	Albendazole with carrier protein.
Isotype	IgG
Source/Host	Mouse
Species Reactivity	N/A
Clone	ABZ2
Purification	Purified from mouse ascites.
Conjugate	Unconjugated
Applications	ELISA, LFIA

Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	PBS
Preservative	None
Storage	Long time storage is recommended at -20°C.
Ship	Wet ice

BACKGROUND

Introduction	Albendazole, marketed as Albenza (United States), Eskazole, Zentel, Andazol, and Alworm, is a benzimidazole drug used for the treatment of a variety of parasitic worm infestations. It is marketed in the U.S. by Amedra Pharmaceuticals, and by GlaxoSmithKline in international markets. Albendazole was first discovered at the SmithKline Animal Health Laboratories in 1972. It is a broad-spectrum anthelmintic, effective against roundworms, tapeworms, and flukes of domestic animals and humans. It is on the World Health Organization's List of Essential Medicines, a list of the most important medications needed in a basic health system.
Keywords	Albendazole