Datasheet: MCA2555B

Description:	MOUSE ANTI CANINE HEARTWORM:Biotin
Specificity:	CANINE HEARTWORM
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	HW2-83
Isotype:	IgG1
Quantity:	0.25 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Invertebrates
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
RRID	AB_808598
Specificity	**Mouse anti Canine Heartworm antibody, clone HW2-83** recognizes both male and female ether extracted parasite antigen of canine heartworm.

Canine heartworm infection, caused by the filarial nematode *Dirofilaria immitis*, is an insidious and potentially fatal condition transmitted by mosquitoes, which primarily affects the heart and lungs of dogs, but may also affect other species including cats, foxes, sea-lions, ferrets and humans.

Canine heartworm disease, resulting ultimately in damage to the pulmonary vasculature system, is largely attributed to the immunological response of the host to the presence of the adult parasites, and in many cases their microscopic offspring (microfilaria) which circulate in the bloodstream, but growing evidence suggests the involvement of further factors/mediators.

ELISA	This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with MCA2554 as a capture reagent.
Further Reading	1. Mupanomunda, M. *et al.* (1997) Dirofilaria immitis: heartworm infection alters pulmonary artery endothelial cell behavior. J Appl Physiol (1985). 82 (2): 389-98. 2. Uchide, T. & Saida, K. (2005) Elevated endothelin-1 expression in dogs with heartworm disease. J Vet Med Sci. 67 (11): 1155-61.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2555B 10040
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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