

Datasheet: MCA2554

BATCH NUMBER 120514

Description:	MOUSE ANTI CANINE HEARTWORM
Specificity:	CANINE HEARTWORM
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HW1-39
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.05% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

RRID AB_770108

Specificity **Mouse anti Canine Heartworm antibody, clone HW1-39** 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 an indirect ELISA or as a capture antibody in a sandwich ELISA together with product code [MCA2555B](#) as a detection reagent.

Western Blotting MCA2554 detects band/s of approximately 170, 155, 98, 80, 70 and 62kDa under reducing conditions.

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 Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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/MCA2554>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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