

Datasheet: MCA2554

**BATCH NUMBER 165746**

<b>Description:</b>	MOUSE ANTI CANINE HEARTWORM
<b>Specificity:</b>	CANINE HEARTWORM
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HW1-39
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Invertebrates
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein</b>	IgG concentration 1.0mg/ml

## Concentrations

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RRID AB\_770108

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**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.

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**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.

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

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**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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2554>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
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 (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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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](https://bio-rad-antibodies.com/datasheets)  
'M418914:230427'

Printed on 29 Feb 2024

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