



# Canine Heartworm (HW2-83): sc-65664

## BACKGROUND

Heartworm is a parasitic roundworm that is spread from host to host through the bites of mosquitoes. A mosquito ingests heartworm larvae, called microfilariae, from an infected host. The mosquito then transfers the larvae to another uninfected host when next it feeds. The microfilariae then go through several changes to reach adult form, eventually traveling to the right side of the heart to reproduce. In the final reproductive stage of their life cycle, heartworms can reach up to 12 inches in length and reside in the heart of their hosts, where they may stay for many years, commonly killing the host. Early symptoms in dogs include a cough, especially on exercise, and early exhaustion upon exercise. More advanced cases progress to severe weight loss, fainting, coughing up blood and, finally, congestive heart failure leading to death.

## REFERENCES

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## SOURCE

Canine Heartworm (HW2-83) is a mouse monoclonal antibody raised against Canine Heartworm.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Canine Heartworm (HW2-83) is recommended for detection of Canine Heartworm of *D. immitis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.