SANTA CRUZ BIOTECHNOLOGY, INC.

Canine Heartworm (HW1-39): sc-65648

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 its life cycle, Heartworms can reach up to 12 inches in length and reside in the heart of its host 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

APPLICATIONS
Canine Heartworm (HW1-39) is recommended for detection of D. immitis of Canine Heartworm origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); also recommended for capture ELISA with monoclonal antibodies Canine Heartworm (HW2-83): sc-65664 and Canine Heartworm (HW2-81): sc-65671.

RECOMMENDED SECONDARY REAGENTS
To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SOURCE
Canine Heartworm (HW1-39) is a mouse monoclonal antibody raised against Canine Heartworm.

PRODUCT
Each vial contains 100 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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