

论著

## 检测日本血吸虫感染兔尿中循环抗原的研究

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摘要

目的: 建立检测尿液中血吸虫循环抗原的方法。方法: 从感染家兔尿中提取血吸虫循环抗原, 并用所提取的抗原制备和筛选抗该抗原的特异性单克隆抗体。用单抗二抗一步法酶联免疫试验检测感染家兔中的日本血吸虫循环抗原。结果: 22 只家兔感染前尿液中的循环抗原全部阴性; 感染后尿液中循环抗原的阳性率与感染度及感染时间有关。感染 25 条尾蚴的家兔在感染后 3 wk 未能测到循环抗原, 而感染 200 条尾蚴的家兔在感染 3 wk 和 6 wk 的尿循环抗原阳性率分别为 40% 和 100%。结论: 用感染兔尿中提取的循环抗原所制备的单抗作为探针, 可用于检测感染动物尿液中血吸虫循环抗原

关键词 [日本血吸虫, 尿循环抗原检测, 单抗二抗一步法酶联免疫试验](#)

分类号

## DETERMINATION OF CIRCULATING ANTIGEN IN URINE OF RABBITS INFECTED WITH SCHISTOSOMA JAPONICUM

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Abstract

AIM: To develop an immunoassay for the detection of circulating schistosome antigen (CSA) in host urine. METHODS: CSA extracted from the urine of the rabbits infected with Schistosoma japonicum was used for preparing and selecting specific monoclonal antibody. A one step dot ELISA using this specific McAb and a 2nd antibody was used for detection of circulating schistosome antigen in the urine of infected rabbits. RESULTS: No CSA was detected in urine from all of 22 rabbits before infection. The positive rate of CSA in infected rabbits was correlated with the intensity of infection and the time of infection. No CSA was detected in the urine rabbits of 3 weeks after infection with 25 cercariae while the positive rate of CSA in the urine from rabbits infected with 200 cercariae was 40% and 100% after 3 and 6 weeks, respectively. A combination of CSA detection in both urine and serum may increase the detectability. CONCLUSION: The specific McAb prepared by urine CSA of Schistosoma japonicum infected rabbits can be used as a probe for detecting CSA in the urine of infected rabbits.

Key words [Schistosoma japonicum](#) [urine antigen detection](#) [one step dot ELISA of MaAb 2ndAb](#)

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