

论著

日本血吸虫信号蛋白14-3-3的虫体免疫定位

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摘要

目的 研究抗重组日本血吸虫信号蛋白1433(rSj1433)单克隆抗体对天然Sj1433的结合活性,观察Sj1433在虫体内的定位。方法 从阳性钉螺体内逸出尾蚴,感染家兔,分别于感染后15d和42d剖杀,静脉灌注法收集童虫和成虫制备冰冻切片。利用rSj1433单克隆抗体,间接免疫荧光法探讨信号蛋白1433虫体内的分布。结果 免疫荧光染色结果显示,rSj1433单克隆抗体可特异性地结合天然Sj1433抗原表位,背景清晰,Sj1433广泛分布在雌、雄成虫的皮层、皮下层、肌层和实质层,前三种组织中特异性荧光呈线状分布,实质中特异性荧光弥散;童虫中Sj1433也广泛的分布在皮层、皮下层、肌层和实质层。结论 免疫荧光染色成功地确定了Sj1433蛋白在成虫和15d童虫体内的分布

关键词 [Sj14-3-3](#) [克隆抗体](#) [间接免疫荧光](#) [定位](#)

分类号

Immunolocalization of the Signaling Protein I4-3-3 of *Schistosoma japonicum*

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Abstract

Objective To study the localization of the signaling protein 14-3-3 of *Schistosoma japonicum* (Sj14-3-3) in the parasite. Methods Cercariae were collected from the infected *Oncomelania hupensis* for the infection of rabbits. Fifteen-day-old schistosomula and adult worms obtained from infected rabbits 15 and 42 days post-infection were used for frozen sections and indirect immunofluorescence staining with monoclonal antibody to rSj14-3-3. Results The results showed that the Sj14-3-3 distributed mainly in the tegument, subtegument, muscle, and parenchyma of both adult worms and 15-day-old schistosomula. Conclusion The wide distribution and large sites of Sj14-3-3 in the parasite were clearly demonstrated, which established a significant clue for further studies of biologic actions and application of 14-3-3 protein.

Key words [Schistosoma japonicum](#) [Sj14-3-3](#) [monoclonal antibody](#) [indirect immunofluorescence](#) [localization](#)

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