

论著

## 日本血吸虫22.6kDa重组蛋白对小鼠的免疫保护性研究

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摘要

目的:研究日本血吸虫(中国大陆株)22.6 kDa 抗原作为血吸虫病疫苗候选分子的潜能,并探讨Sj22.6/Sj26 GST 融合蛋白作为复合疫苗的可能性。方法:用亲和层析法制备Sj22.6/Sj26 GST融合蛋白。将这两种蛋白分别免疫BALB/c小鼠后进行攻击感染试验。结果:Sj22.6 重组蛋白和Sj22.6/Sj26 GST 融合蛋白分别可诱导小鼠产生32.1% (P< 0.005) 和34.9% (P< 0.02)的成虫减虫率, 28.4% (P< 0.02)和45.1% (P< 0.005)的总减卵率。结论:rSj22.6 与Sj22.6/Sj26 GST融合蛋白均有疫苗应用价值

关键词 [日本血吸虫](#) [22.6kDa抗原](#) [融合表达](#) [重组蛋白](#) [免疫保护](#)

分类号

## STUDIES ON IMMUNOPROTECTION IN MICE AFTER IMMUNIZATION WITH SCHISTOSOMA JAPONICUM 22.6 kDa RECOMBINANT PROTEIN \*

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Abstract

AIM: To evaluate the immunoprotective effect of Schistosoma japonicum recombinant 22.6 kDa (rSj22.6) and Sj22.6/Sj26 GST fusion protein. METHODS: The Sj22.6/Sj26 GST fusion protein was prepared by affinity chromatography using glutathione Sepharose 4B. The purified rSj22.6 could be cleaved easily from the fusion protein with Thrombin. 17 and 12 mice immunized with rSj22.6 and Sj22.6/Sj26 GST separately were each challenged with 40±1 S. japonicum cercariae. RESULTS: In BALB/c mice, the rSj22.6 and Sj22.6/Sj26 GST could induce 32.1 (P<0.005) and 34.9% (P<0.02) worm reduction, respectively, as well as 28.4% (P<0.02) and 45.1% (P<0.005) total egg reduction, respectively. CONCLUSION: Bpth rSj22.6 and Sj22.6/Sj26 GST fusion protein are partially effective against S.japonicum.

Key words [Schistosoma japonicum](#) [22.6 kDa antigen](#) [fusion expression recombinant protein](#) [immunoprotection](#)

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