

论著

猪囊尾蚴副肌球蛋白cDNA中CpG序列的免疫激活作用

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摘要

目的 探讨猪囊尾蚴副肌球蛋白(又称为Antigen B, AgB)cDNA中CpG序列的免疫激活作用。方法 以pcDNA3 AgB质粒疫苗、CpG序列突变的pcDNA3 AgB'质粒疫苗、pcDNA3载体质粒和AgB蛋白质分别免疫C57BL/6小鼠,2wk后开始用ELISA检测小鼠血清中IgG和IgG2a的效价。结果 免疫接种的第2周起实验组IgG与IgG2a效价开始升高,至第4周达到峰值。其中以pcDNA3 AgB组升高最为显著($P < 0.05$)。结论 pcDNA3 AgB核酸疫苗所诱导的小鼠免疫反应,不仅具有其表达产物AgB蛋白的抗原作用,AgBcDNA中的CpG序列也具有免疫激活作用。

关键词 [囊尾蚴](#) [副肌球蛋白](#) [核酸疫苗](#) [CpG序列](#)

分类号

Immunostimulatory Activity Elicited by CpG Sequences in *Cysticercus Cellulosae* Paramyosin cDNA

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Abstract

Objective To analyse the immunostimulatory activity of CpG sequences in cysticercus cellulosae paramyosin (also named Antigen B, AgB)cDNA. Methods C57BL/6 mice were immunized with pcDNA3 AgB plasmid, pcDNA3 AgB' (CpG sequences were mutated), pcDNA3 or AgB protein and two weeks later, immune response was assayed by ELISA. Results IgG and IgG 2a were detectable at week 2 after immunization and continually increased until week 4. The antibody levels elicited by pcDNA3 AgB were significantly higher ($P < 0.05$) than those elicited by others. Conclusion After pcDNA3 AgB plasmid inoculation, the immune response of mouse was elicited not only by the AgB protein but also by the CpG immunostimulatory sequences in the AgB cDNA.

Key words [Cysticercus cellulosae](#) [paramyosin](#) [DNA vaccine](#) [CpG sequence](#)

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