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黑胸大蠊免疫血清的制备与应用

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Preparation and Application of Periplaneta Fuliginosa Immunized Rabbit Sera

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摘要 按常规动物免疫方法用黑胸大蠊不同发育阶段可溶性抗原对新西兰兔进行免疫,并通过SDS-PAGE和酶联免疫印迹(ELIB)技术分析黑胸大蠊不同发育阶段抗原的免疫学特性,同时用黑胸大蠊若虫和雄虫免疫血清筛选美洲大蠊若虫cDNA文库,对阳性克隆进行PCR鉴定和序列测定,结果显示:卵抗原、若虫抗原、雄成虫抗原、雌成虫抗原分别可见13,28,26和41条蛋白区带,4种抗原组分相互之间有交叉抗原存在,用黑胸大蠊若虫免疫血清筛选出1个新基因,用黑胸大蠊雄虫免疫血清筛选出6个新基因。

关键词: 黑胸大蠊 免疫血清 制备 ELIB cDNA文库筛选

Abstract: Soluble protein antigens from different developmental stages of Periplaneta fuliginosa were used to immunize rabbits.The immunological characteristics of antigens from different stages of Periplaneta fuliginosa were analyzed with SDS-PAGE and enzyme-linked immuno-blotting (ELIB).Rabbits anti-sera against nymph and adult antigens were used to screen the cDNA library of Periplaneta Americana nymph,and the positive clones were identified by PCR.Results showed that the egg antigens,nympha antigens,male and female adult antigens revealed 13,28,26,41 bands,respectively.The results also showed that there were cross-reactive antigen components among these groups.One and 6 new genes were screened with nympha and adult antigen immunized rabbit sera,respectively.

Key words: Periplaneta fuliginosa immunized rabbit serum preparation ELIB cDNA library screening

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