

论著

旋毛虫部分抗原表位的识别与分析

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摘要

[目的]筛选旋毛虫肌幼虫可溶性抗原中具有免疫显性的表位。[方法]采用杂交瘤技术,获得15株特异性单克隆抗体,随后用酶联免疫吸附试验(ELISA)、免疫印迹法(Westernblotting)和间接免疫荧光试验(IFA)对部分免疫显性抗原进行分析。[结果]Westernblotting试验显示,6株单抗与旋毛虫肌幼虫可溶性抗原反应显示有特异条带,分子量为40~70kDa;而多抗血清则可识别20~200kDa之间10条条带。IFA可观察到,6株单抗中有4株单抗的靶抗原定位在旋毛虫肌幼虫表皮层上,另2株定位于杆状体(stichosome)及表皮层。[结论]识别与分析部分旋毛虫肌幼虫可溶性抗原中具有免疫显性的表位,为纯化旋毛虫的抗原及疫苗靶抗原的研制提供了有价值的实验依据。

关键词 [旋毛虫](#) [表位](#) [单克隆抗体](#) [免疫印迹法](#) [免疫荧光](#)

分类号

LOCALIZATION AND CHARACTERIZATION OF PARTIAL IMMUNODOMINANT ANTIGEN EPITOPES OF TRICHINELLA SPIRALIS

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Abstract

[Objective] To screen and characterize immunodominant antigen epitopes on the soluble antigens of *Trichinella spiralis* (T s) . [Methods]15 monoclonal antibodies (McAbs) against T s muscle larva(ML) soluble antigens were obtained by using hybridoma technique. The reactivity of monoclonal and polyclonal antibodies were tested by ELISA, Western blotting and indirect immunofluorescence assay(IFA). [Results] The Western blotting result showed that of the 15 McAbs, 6 could bind to the T s ML antigens displaying molecular weights of 40~70 kDa. Polyclonal sera could react with more than 10 bands having molecular weights of 20~200 kDa. Among the 6 McAbs, 4 could recognize epitopes on the cuticle surface and the other two could recognize epitopes on both the cuticle surface and the stichosome. [Conclusion]The antigen epitopes of T s recognized by 6 McAbs had been characterized.

Key words

[Trichinella spiralis](#) [epitope](#) [monoclonal antibody](#) [Western blotting](#) [immunofluorescence](#)

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