

依赖于DNA的RNA聚合酶的研究V. 615小鼠肝RNA聚合酶B(II)的免疫学特性研究

王恢鹏, 王 斌, 黄崇喜, 张大达, 王金霞, 刘连瑞

中国科学院遗传研究所, 北京

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摘要 用615小鼠肝RNA聚合酶B免疫母鸡获得了抗血清。在免疫扩散实验中, 这种抗血清和615小鼠肝RNA聚合酶B之间形成清晰的沉淀线; 与L615(可移植性小鼠白血病)小鼠及大鼠肝RNA聚合酶B之间形成弱的沉淀线; 而与615小鼠肝RNA聚合酶A和C以及大肠杆菌RNA聚合酶之间不形成沉淀线。这种抗血清对615小鼠肝RNA聚合酶B离体转录活性有明显的抑制作用, 而对大肠杆菌的RNA聚合酶没有抑制作用。在免疫扩散实验中, 这种抗血清可以和不同批号的615小鼠肝RNA聚合酶B产生沉淀线。这种抗血清和615小鼠肝RNA聚合酶B形成免疫沉淀后的离心上清液电泳图谱中, 血清免疫球蛋白的区带消失了。

关键词

分类号

Studies on DNA-Dependent RNA Polymerases V. Immunological Properties of 615 Mouse Liver RNA Polymerase

Wang Huipeng, Wang Bin, Huang Chongxi, Zhang Dada, Wang Jinxia, Liu Lianrui

Institute of Genetics, Academia Sinica, Beijing

Abstract

Adult hen (white leghorn) was immunized with 615 mouse liver RNA polymerase B. A hen anti-615 mouse liver RNA polymerase B serum was obtained. In double-immunodiffusion test, this antiserum formed a strong precipitin line with 615 mouse liver RNA polymerase B; but it only formed weak precipitin line with L615 (transplantable mouse leukaemia) mouse liver RNA polymerase B or rat liver RNA polymerase B. However, it did not show precipitin lines with 615 mouse liver RNA polymerases A, C or E. coli RNA polymerase. In transcriptal assay in vitro, this antiserum exhibited a strong inhibitory effect on the activity of 615 mouse liver RNA polymerase B, but did not inhibit the activity of E. coli RNA polymerase. In double-immunodiffusion test, this antiserum could form precipitin lines with different batches of 615 mouse liver RNA polymerases B. After centrifugation, the supernatant of the immunoprecipitation mixture was examined by electrophoresis. In the electrophoretic pattern, the band corresponding to immunoglobulin disappeared.

Key words

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