

中国武汉地区汉族人补体第四成份(C4)的遗传多态现象¹⁾

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摘要 对神经氨酸酶处理去涎的血浆进行高压琼脂糖电泳后, 分别应用免疫固定和溶血覆盖技术调查了我国武汉地区汉族180人的C4多态现象。在C4R座位发现5个变型: C4A 4, 3, 2, 1和91; 在C0 座位发现6个变型: C4B 3, 2, 1, 92, 9W 和%。两个座位均有静息等位基因(C414*Q0和C4B*Q0)存在。它们相应的基因频率为: C4, 4*4, 0.014; 3, 0.633; 2, 0.192; 1, 0.031; 91, 0.003; Q0, 0.14; ; C4B* 3, 0.006; 2, 0.127; 1, 0.751; 92, . 0.041; 9tiV, 0.003; 96, 0.006; Q0, 0.066。单零C4A (C4A Q0) 表型个体占总体28.3%, 单零C4B (C4B Q0) 占11.1%; 纯合C4A缺乏 (C4A Q0J Q0) 和纯合C4B缺乏 (C413 Q05 Q0) 分别占0.56%。和1.11%卡方测验表明, C4, 1. 和C4B基因频率分别符合Hardy-W einberg遗传平衡定律。

关键词 [c4 多态现象](#); [免疫固定](#); [溶血覆盖技术](#)。

分类号

Genetic Polymorphism of the Fourth Component of Human Complement (C4) in the Han Nationality of Wuhan District of China

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Abstract

180 unrelated Chinese (Han Nationality) were investigated for C4 polymorphism by immunofixation and hemolytic overlay techniques after high voltage electrophoresis on neuraminidase-treated plasmas. Five variants at the C4A locus and six variants at the C4B locus were found, and there exist silent alleles at both C4A and C4B also. 32 different C4A, B phenotypes were detected and the following gene frequencies were obtained: C4A*4, 0.014; 3, 0.633; 2, 0.192; 1, 0.011; 91, 0.003; Q0, 0.147 and C4h*3, 0.006; 2, 0.127; 1, 0.751; 92, 0.041; 9平, 0.003; 96, 0.006; Q0, 0.066. Individuals with phenotype of single null C4A (C4A Q0) and C4B (C4B Q0) account for 28.3% and 11.1%, and those with phenotype of double null: C4A (C4A Q0, Q0) and C413 (C4B Q0, Q0), 0.56% and 1.11% of the total respectively. The distributions of CM and C4B gene frequencies in this population were in agreement with those expected from the Hardy-Weinberg equilibrium by χ^2 test respectively.

Key words [C4 Polymorphism](#); [Immunofixation](#); [Hemolytic overlay technique](#).

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