

ABO TYPE GENE EXAMINATION BY REAL-TIME PCR METHOD

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As for the ABO type genotype examination method, a lot of PCR-RFLP methods and PCR-SSCP methods have been reported. Diagnosing the ABP type genotype examination more accurately and early is important in legal medicine. We tried the examination of ABP blood group by the hydrolysis probe PCR method, referring to the report of Ogata et. Al. The sample used was the bloodstain of a blood type already identified and preserved in this classroom. The 261st deficiency of the base, primer and the probe that identified the 763rd bases to the 803rd base substitution of the base were made for the ABO type genotype examination. The probe used was made by a Biosearch technology company. A reactive solution was made by the Agilent Technologies company. The Brilliant II QPCR Master mix was used the the Brilliant II Fast QPCR Master mix was used to aim at shortening time. Amplification and the analysis was made by the Agilent Technologies Company using the real-time, fixed quantity PCR analysis system MX3000P. The PCR condition had undergone an initial denaturation by heat. It went in annealing 60 C. 40 cycles in 15 seconds during heat degeneration of 95 C. 60 seconds. 10 minutes later. As a result, both of the ABO type genotypes were correctly amplified and judging the type was possible. Moreover, about 40 minutes were shortened by using the high-speed reagent compared with the past reagent. Sensitivity was higher than the past QPCR Master mix. The use of this method is believed to be of significance in legal medicine judgment studies.