



Association of the RIP2 Gene with Childhood Atopic Asthma

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Background: Receptor-interacting protein (RIP)-2 is a serine/threonine kinase containing a caspase recruitment domain (CARD) that i s involved in the Toll-like receptor-signaling pathway. Although associations between endotoxin exposure or respiratory infection and asthm a have been recognized, the genetic influences in these conditions are unclear. The aim of our study was to examine whether polymorphism s or haplotypes in RIP2 were associated with childhood atopic asthma in a Japanese population.

Methods: We screened the RIP2 gene for polymorphisms by direct sequencing and characterized the linkage disequilibrium (LD) mappin g of the gene. Seven variants were genotyped in childhood atopic asthma (n=300) and normal controls (n=637). We conducted case-cont rol and case-only association studies between the variants and asthma-related phenotypes. Haplotype association analyses were also performe d.

Results: A total of 31 variants were identified and none of the alleles or haplotypes of RIP2 were associated with asthma susceptibility. I n the case-only study, an association between an RIP2 promoter polymorphism and childhood severe asthma (P=0.0032; odds ratio (OR) 3.3 7,95% confidence interval (CI) 1.45—7.87) was observed.

Conclusions: Although polymorphisms in RIP2 are not likely to be associated with the development of asthma, the genetic variants might contribute to asthma severity in the Japanese population.

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