

Supplementary Table S4. Multiple linear regression analysis between the *HLA* alleles for the age at onset of RA.

<i>HLA</i> allele	Unconditioned		Conditioned on <i>B*44:03</i>		Conditioned on <i>DRB1*13:02</i>		Conditioned on <i>DQB1*06:04</i>		Conditioned on <i>DPB1*04:01</i>	
	<i>P</i>	PRC (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)
<i>B*44:03</i>	0.0265	3.02 (0.35~5.69)	NA	NA	0.5286	1.33 (-2.81~5.47)	0.3013	2.16 (-1.94~6.26)	0.1538	2.24 (-0.84~5.32)
<i>DRB1*13:02</i>	0.0177	3.59 (0.62~6.55)	0.2954	2.46 (-2.15~7.06)	NA	NA	0.2018	5.05 (-2.71~12.80)	0.1273	2.79 (-0.80~6.39)
<i>DQB1*06:04</i>	0.0416	3.16 (0.12~6.19)	0.5863	1.29 (-3.37~5.95)	0.6897	-1.61 (-9.55~6.32)	NA	NA	0.2747	2.08 (-1.66~5.82)
<i>DPB1*04:01</i>	0.0486	3.15 (0.02~6.28)	0.3179	1.84 (-1.77~5.45)	0.4421	1.48 (-2.30~5.27)	0.3352	1.89 (-1.96~5.75)	NA	NA

<i>HLA</i> allele	Unconditioned		Conditioned on <i>DRB1*04:05</i>		Conditioned on <i>DQB1*04:01</i>		Conditioned on <i>DPB1*02:01</i>	
	<i>P</i>	PRC (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)
<i>DRB1*04:05</i>	0.0074	-1.90 (-3.29~-0.51)	NA	NA	0.1403	2.83 (-0.93~6.60)	0.0044	-2.02 (-3.41~-0.63)
<i>DQB1*04:01</i>	0.0005	-2.36 (-3.70~-1.03)	0.0081	-4.89 (-8.52~-1.27)	NA	NA	0.0003	-2.44 (-3.77~-1.11)
<i>DPB1*02:01</i>	0.0085	-1.75 (-3.05~-0.45)	0.0051	-1.86 (-3.16~-0.56)	0.0052	-1.85 (-3.14~-0.55)	NA	NA

<i>HLA</i> allele	Unconditioned		Conditioned on <i>DRB1*01:01</i>		Conditioned on <i>DQB1*05:01</i>	
	<i>P</i>	PRC (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)	<i>P</i> _{adjusted}	PRC _{adjusted} (95%CI)
<i>DRB1*01:01</i>	0.0317	2.44 (0.21~4.67)	NA	NA	0.8957	-0.38 (-6.07~5.31)
<i>DQB1*05:01</i>	0.0168	2.48 (0.45~4.50)	0.2897	2.79 (-2.38~7.97)	NA	NA

RA: rheumatoid arthritis, PRC: partial regression coefficient, CI: confidence interval. *P*, PRC, 95%CI, *P*_{adjusted}, PRC_{adjusted} were calculated by linear regression analysis under the additive model.