

**HLA associations differ by ethnicity and aquaporin-4 antibody status in  
neuromyelitis optica spectrum disorders**

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**This document contains eFigures 1 and 2.**

## eFigure 1

AA Pos.	10	20	30	40	50	60	70	80	90	100
DRB1*08:04:01:01	GDTRPRFLEY	STGECYFFNG	TERVRFLDRY	FYNQEEYVRF	DSDVGEYRAV	TELGRPDAEY	WNSQKDFLED	RRALVDTYCR	HNYGVVESFT	VQRRVHPKVT
DRB1*08:01:01:01	-----	-----	-----	-----	-----	-----S---	-----	-----	-----G---	-----
DRB1*08:02:01:01	-----	-----	-----	-----	-----	-----	-----	-----	-----G---	-----
AA Pos.	110	120	130	140	150	160	170	180	190	200
DRB1*08:04:01:01	VYPSKTQPLQ	HHNLLVCSVS	GFYPGSIEVR	WFRNGQEEKT	GVVSTGLIHN	GDWTFQTLVM	LETVPRSGEV	YTCQVEHPSV	TSPLTVEWSA	RSESAQSKML
DRB1*08:01:01:01	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DRB1*08:02:01:01	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
AA Pos.	210	220	230							
DRB1*08:04:01:01	SGVGGFVLGL	LFLGAGLFIY	FRNQKGHSGL	QPTGFLS						
DRB1*08:01:01:01	-----	-----	-----	-----						
DRB1*08:02:01:01	-----	-----	-----	-----						

HLA Sequence Alignment: DRB1 MATURE PROTEIN - Release 3.60.0 (2025-04-09)

The alignment was created with <https://www.ebi.ac.uk/ipd/imgt/hla/alignment/> (Barker DJ, Maccari G, Georgiou X, Cooper MA, Flicek P, Robinson J, Marsh SGE. The IPD-IMGT/HLA Database. Nucleic Acids Research (2023) 51:D1053-60)

## eFigure 2

AA Pos.	10	20	30	40	50	60	70	80	90	100
DRB1*03:01:01:01	GDTRPRFLEY	STSECHFFNG	TERVRYLDRY	FHNQEENVRF	DSDVGEFRAV	TELGRPDAEY	WNSQKDLLEQ	KRGRVDNYCR	HNYGVVESFT	VQRRVHPKVT
DRB1*03:02:01:01	-----	-----	----F-E--	-----	-----Y---	-----	-----	-----	-----G---	-----

  

AA Pos.	110	120	130	140	150	160	170	180	190	200
DRB1*03:01:01:01	VYPSKTQPLQ	HHNLLVCSVS	GFYPGSIEVR	WFRNGQEEKT	GVVSTGLIHN	GDWTFQTLVM	LETVPRSGEV	YTCQVEHPSV	TSPLTVEWRA	RSESAQSKML
DRB1*03:02:01:01	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

  

AA Pos.	210	220	230
DRB1*03:01:01:01	SGVGGFVLGL	LFLGAGLEFIY	FRNQKGHSGL QPRGFLS
DRB1*03:02:01:01	-----	-----	-----

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