

**Table S6. Reactivity to CNS in RRMS (CNS<sup>1</sup>), PPMS (CNS<sup>2</sup>) and SPMS (CNS<sup>3</sup>)**

IgM	Antigen	CNS			IgG	Antigen	CNS		
		CNS <sup>1</sup>	CNS <sup>2</sup>	CNS <sup>3</sup>			CNS <sup>1</sup>	CNS <sup>2</sup>	CNS <sup>3</sup>
	IgM_Beta Amyloid	▲	▲						
	IgM_Amyloid beta 1-12	▲		▼					
	IgM_Amyloid beta 1-23	▲		▼					
	IgM_Amyloid beta 10-20	▲							
	IgM_Amyloid beta 12-28								
	IgG_Amyloid beta 17-40			▲					
	IgM_Amyloid beta 1-42	▲		▲					
	IgM_AB 1-40		▲						
	IgG_beta Crystallin			▲					
	IgM_bovineMBP	▲	▲						
	IgM_CNP 1-20	▲	▲						
	IgM_CNP 16-35	▲		▲					
	IgM_CNP 61-80	▲							
	IgM_CNP 76-95	▲							
	IgM_CNP 91-110	▲							
	IgM_CNP 121-140			▼					
	IgM_CNP 181-199			▼					
	IgM_CNP 195-214			▼					
	IgM_CNP 240-259	▲							
	IgM_CNP 271-290	▲							
	IgM_CNP 286-305	▲		▼					
	IgM_CNP 301-320	▲							
	IgM_CNP 346-365			▼					
	IgM_CNP 361-380			▼					
	IgM_CNP 376-395			▼					
	IgM_CNP 391-410	▲							
	IgM_CNP 406-421	▲							
	IgM_Neurofilament 68kDa		▲						
	IgM_gpMBP		▲						
	IgM_bovineMBP			▼					
	IgM_mMBP		▼	▼					
	IgM_MBP 1-20			▼					
	IgM_MBP 11-30	▲							
	IgM_MBP 41-60	▲							
	IgM_MBP 51-70	▲							
	IgM_MBP 71-92	▲							
	IgM_MBP 84-94	▲							
	IgM_MBP 89-101	▲							
	IgM_MBP 104-123	▲	▲						
	IgM_MBP 138-147			▼					
	IgM_MBP 155-178			▼					
	IgM_MOBP 61-80		▲						
	IgM_MOBP 151-170	▲							
	IgM_MOBP 166-185			▼					
	IgM_MOG 31-50			▼					
	IgM_MOG 61-80			▼					
	IgM_MOG 106-125	▲							
	IgM_MOG 196-215	▲							
	IgM_MOG 211-230	▲							
	IgM_MOG 76-95	▲							
	IgM_MOG 91-110	▲							
	IgM_OSP 1-20			▼					
	IgM_OSP 31-50	▲							
	IgM_OSP 61-80	▲		▼					
	IgM_OSP 121-140			▼					
	IgM_OSP 136-155	▲							
	IgM_OSP 76-95	▲							
	IgM_P2 1-20			▼					
	IgM_P2 31-50			▼					
	IgM_P2 46-65			▼					
	IgM_P2 61-80	▲							
	IgM_P2 76-95	▲							
	IgM_PLP 1-19			▲					
	IgM_PLP 10-29	▲							
	IgM_PLP 40-59		▲						
	IgG_PLP 80-99			▲					
	IgM_PLP 137-150		▲						
	IgM_PLP 150-163			▼					
	IgM_PLP 161-180		▲						
	IgM_PLP 178-191	▲							
	IgM_PLP 180-199	▲							
	IgM_PLP 190-209	▲							
	IgM_PLP 215-232		▼						
	IgM_PLP 220-249	▲							
	IgM_PLP 248-259	▲							
	IgM_PLP 250-269	▲							
	IgG_RBP			▼					
	IgM_Secreted APPalpha		▲	▼					
	IgM_SOD		▲						

Antibody reactivity to CNS antigens is shown as a black square, with a white arrow indicating whether it is up- or down- regulated relative to HC (for RRMS and PPMS) or RRMS (for SPMS). CNP, 2',3'-cyclic nucleotide 3'-phosphodiesterase; MOBP, myelin-associated oligodendrocytic basic protein; MOG, myelin/oligodendrocyte glycoprotein; MBP, myelin basic protein; P2, myelin protein 2; OSP, oligodendrocyte-specific Protein; PLP, proteolipid protein; AB, amyloid  $\beta$ .