

M. Keshtkarjahromi, A.W. Rebman, A.A.R. Antar, Y.C. Manabe, L. Gutierrez-Alamillo, L.A. Casciola-Rosen, J.N. Aucott, J.B. Miller

Antibody levels are shown in units, obtained per the manufacturer's protocol. Antibody status is assigned as follows: negative (0-5 units), low positive (6-25 units), moderate positive (26-50 units) and strong positive (>50 units).

Patient serum	ANA antibody panel																			Myositis antibody panel																				Scleroderma antibody panel											
	AMA M2	Ribo- somal	Histone	Nucleo- some	dsDNA	PCNA	CENP-B	Jo-1	PMSC1 100	Scl-70	SSB	Ro-52	SSA	RNP-C	RNP-A	RNP-70	Sm	RNP/Sm	Ro-52	Qi	Ei	PL-12	PL-7	SRP	Jo-1	PMSC1 75	PMSC1 100	Ku	SAE	NXP2	MDA5	Twf1g	Mi-2b	Mi-2a	Ro-52	PDGFR	Ku	PMSC1 75	PMSC1 100	Th/To	NOR90	Fibrin- fibrin	RP155	RP11	CENP-B	CENP-A	Scl-70				
PTLD 1	3	6	2	2	2	5	2	2	2	2	1	3	2	2	2	1	2	1	0	1	3	2	2	2	4	2	2	1	2	2	2	2	1	2	2	0	2	2	2	1	2	2	2	2	2	2	1	2	2	4	
PTLD 2	0	2	0	2	2	2	0	2	1	2	0	2	1	0	2	2	2	2	0	1	2	2	2	1	7	1	2	1	3	0	3	1	2	3	2	1	2	3	2	1	2	0	4	2	2	2	2	2	1	0	1
PTLD 3	2	1	4	2	2	2	1	0	5	0	4	1	2	1	1	0	8	0	6	3	2	2	2	2	2	2	1	2	1	2	6	2	2	2	2	2	1	2	2	2	0	4	2	2	5	2	2	1	0	4	
PTLD 4	2	0	0	2	2	2	2	0	0	0	0	1	2	2	2	2	4	2	0	6	2	2	2	2	4	0	2	2	1	2	10	4	10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	0	4
PTLD 5	1	1	3	4	4	5	1	0	2	2	2	3	1	1	0	2	2	2	1	2	0	2	2	9	4	2	0	2	0	4	4	2	14	18	6	2	2	2	2	2	2	2	6	4	2	4	6	2	1	1	
PTLD 6	2	1	2	5	2	2	2	1	0	3	2	0	3	2	1	1	1	0	1	2	2	3	2	5	1	2	0	4	4	2	5	2	3	4	2	2	2	2	3	1	5	4	5	5	3	2	1	2			
PTLD 7	0	0	2	3	3	0	1	1	3	66	0	1	2	2	2	1	1	2	0	6	2	4	4	3	4	1	54	2	2	3	2	3	2	2	3	2	2	2	80	1	2	2	1	2	3	0	1	1	38		
PTLD 8	2	1	14	2	3	1	2	0	5	2	2	0	2	1	1	4	1	2	2	2	2	4	4	6	0	26	2	3	2	1	2	2	3	4	1	1	2	18	4	5	2	2	3	1	1	18	2				
PTLD 9	0	0	1	2	2	1	1	1	1	2	0	2	0	2	2	2	1	1	2	4	2	4	11	4	1	2	1	22	6	2	4	1	12	2	2	19	2	2	19	2	2	4	2	2	3	2	0	0	1		
PTLD 10	3	2	2	1	5	2	2	2	2	2	14	2	4	2	2	2	2	4	28	12	5	6	2	10	0	14	0	3	7	4	8	2	2	4	11	2	2	14	2	6	3	4	7	2	2	3	1				
PTLD 11	0	2	2	2	3	1	1	2	16	2	2	2	0	1	2	2	1	0	1	2	2	2	3	2	0	2	9	2	2	4	2	2	4	2	1	1	2	12	4	2	3	4	2	1	1	2					
PTLD 12	1	2	2	0	4	0	2	2	2	2	4	36	0	4	1	1	0	28	4	1	5	3	3	3	4	2	6	2	1	2	2	11	3	31	0	4	3	0	3	3	3	4	1	2	1	2					
PTLD 13	2	1	3	2	6	2	1	2	2	1	2	2	0	2	1	1	0	2	1	5	6	3	2	4	0	3	2	3	6	3	6	2	2	4	1	2	2	2	1	4	2	3	4	2	2	2	2				
PTLD 14	5	2	0	4	3	2	2	1	4	4	4	2	0	4	2	3	2	0	2	28	3	5	4	10	0	2	0	12	3	4	2	2	4	4	1	2	12	3	0	5	4	4	86	4	2	3	4				
PTLD 15	0	1	0	4	1	2	2	1	2	0	2	2	0	2	1	2	1	0	1	2	2	6	2	3	2	2	1	2	1	1	3	1	2	2	0	2	2	2	2	3	2	2	2	1	0	0	2				
PTLD 16	0	1	3	4	4	1	1	2	2	2	2	160	0	2	2	2	0	1	145	2	4	3	2	4	1	2	2	3	4	2	2	3	4	2	2	2	3	140	0	4	2	2	4	2	4	2	1	2			
PTLD 17	0	0	2	2	4	1	1	2	1	1	3	2	2	1	2	0	2	2	2	2	2	2	0	3	1	2	4	2	6	4	16	2	2	2	2	2	1	1	2	4	4	2	16	4	1	2	1				
PTLD 18	2	0	2	3	6	1	2	2	1	0	3	2	2	1	0	3	1	6	4	2	3	3	3	4	2	2	2	3	3	4	2	4	2	4	2	2	1	1	3	3	10	0	2	1	2	2					
PTLD 19	5	4	2	2	6	1	1	2	2	1	0	1	2	2	2	4	0	1	0	3	2	3	3	3	2	3	2	4	8	6	12	0	2	4	0	2	3	4	1	6	4	9	3	2	1	2					
PTLD 20	2	0	2	2	3	4	2	8	2	1	0	0	2	2	2	1	2	0	2	2	1	1	2	1	2	2	5	2	1	2	2	2	2	2	2	0	1	2	2	2	2	1	2	2	1	0	1	2			
PTLD 21	1	2	2	4	4	2	2	2	12	1	4	2	3	2	2	3	3	2	2	2	1	2	4	4	2	2	2	2	4	2	3	3	2	2	2	2	2	2	2	1	4	2	2	2	1	2	6				
PTLD 22	2	2	1	4	4	1	2	0	1	3	6	2	2	2	1	2	2	0	1	3	2	3	12	5	2	2	0	2	4	4	10	0	5	4	0	2	3	2	2	6	9	4	5	3	3	2	2				
PTLD 23	1	0	0	1	2	0	4	1	1	2	0	2	1	2	1	1	2	0	0	2	2	14	6	16	0	6	3	11	2	10	8	0	4	4	2	2	24	6	1	4	4	2	2	4	4	2	2				
PTLD 24	2	2	2	0	7	0	2	2	0	1	2	0	4	1	2	0	0	2	4	2	2	14	3	6	2	3	3	4	5	4	6	3	4	4	2	5	4	2	6	7	4	4	10	4	3	4					
PTLD 25	2	0	2	2	2	0	2	1	3	1	1	4	0	2	2	1	2	0	4	4	2	1	1	4	2	2	2	2	8	4	9	1	1	2	6	2	2	2	2	5	2	2	4	2	1	2	3				
PTLD 26	2	2	1	2	5	15	2	2	2	2	2	2	1	2	3	1	2	2	0	1	2	2	4	2	6	2	3	2	1	3	31	2	2	2	1	8	5	2	4	4	6	2	10	2	2	1					
PTLD 27	16	1	0	2	4	5	2	1	6	2	1	6	0	2	2	1	0	1	4	2	2	2	2	4	2	2	2	4	2	1	0	2	1	2	3	4	1	3	2	5	5	2	9	15	2	0	2	0			
PTLD 28	2	0	2	2	3	0	2	2	2	1	1	3	2	2	2	2	1	1	0	2	2	2	2	2	2	2	2	2	2	6	3	10	2	2	2	2	2	0	3	0	2	3	2	2	13	90	2	2	4		
PTLD 29	2	1	0	1	5	0	1	2	1	2	1	2	2	2	2	2	0	2	0	1	2	1	3	2	2	2	2	2	2	2	2	3	0	2	2	2	2	2	2	2	2	4	4	2	2	2	2	2			
PTLD 30	2	0	1	2	4	0	2	1	2	0	2	2	2	2	2	1	2	0	0	2	2	2	2	2	2	1	2	2	0	4	2	2	0	3	2	2	2	2	2	2	2	4	2	5	3	5	1	2	2		
PTLD 31	1	1	1	2	2	3	2	0	2	2	2	1	0	2	2	1	1	1	1	2	2	1	1	2	2	1	2	2	1	2	1	6	0	1	2	2	0	1	2	2	2	4	2	3	2	2	2	4			
PTLD 32	3	1	2	2	4	3	2	0	4	2	2	4	2	2	2	2	1	1	2	2	1	4	2	2	2	3	2	2	2	2	2	2	2	2	2	3	1	1	2	2	2	2	2	2	2	2	2	2			
PTLD 33	2	1	2	2	4	3	2	0	1	2	2	2	2	2	2	2	2	1	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	36	5	1	4	1	2	10	2	5	6	3	1	1				
PTLD 34	2	2	2	3	1	0	0	4	2	2	2	0	1	2	2	1	2	0	1	1	2	2	2	2	2	2	4	2	2	2	4	2	2	3	1	2	2	2	2	2	2	2	42	2	3	2	2	1			
PTLD 35	4	1	0	1	4	1	2	5	2	2	2	6	3	2	2	0	10	0	2	3	2	8	4	6	5	2	2	6	3	3	4	1	3	3	2	2	6	4	1	7	2	14	4	2	2	3	1				
PTLD 36	2	0	0	1	13	1	2	12	0	2	0	0	1	3	2	3	0	2	1	2	2	2	3	4	5	48	1	2	4	2	3	1	4	4	2	2	4	38	2	10	3	5	4	8	2	3	3				
PTLD 37	4	0	2	0	4	4	2	1	2	4	0	2	0	3	2	2	0	2	8	10	4	10	5	0	17	1	34	5	4	20	0	3	4	2	1	22	10	3	8	4	8	5	2	1	1	3					
PTLD 38	2	1	2	0	4	2	2	2	2	1	2	2	2	2	2	2	2	1	2	2	2	2	3	2	0	3	2	4	2	2	2	2	1	2	3	2	1	2	2	0	6	2	3	18	2	1	2	2			
PTLD 39	1	1	2	3	4	2	4	1	4	2	2	8	1	4	2	3	1	0	6	3	2	2	6	6	2	2	5	2	2	2	4	0	2	3	3	1	2	2	3	3	4	3	4	3	2	2	1				
PTLD 40	3	0	0	0	22	1	2	0	1	4	4	2	0	2	1	2	1	0	1	3	2																														

Lyme RTH 21	2	0	4	2	3	1	2	1	16	2	1	2	2	3	2	2	1	0	2	2	2	3	2	4	1	13	22	10	5	1	4	38	2	3	3	1	4	3	12	4	1	2	4	2	2	2	4	
Lyme RTH 22	2	0	3	1	0	1	2	0	1	2	2	1	2	2	1	2	0	4	2	4	2	2	2	1	0	2	2	2	2	4	3	6	2	2	2	2	1	2	2	2	4	2	4	3	1	2	2	
Lyme RTH 23	2	2	2	1	6	1	2	2	2	1	2	0	4	2	0	4	0	1	2	2	2	1	4	2	3	1	1	4	2	5	0	2	4	2	0	2	2	2	1	22	4	2	4	2	2	3	2	
Lyme RTH 24	2	1	0	0	6	1	2	2	2	0	1	2	2	2	2	0	1	2	3	2	2	4	6	2	2	1	2	6	4	5	0	2	3	0	2	2	2	2	6	2	4	5	3	1	1	0		
Lyme RTH 25	2	0	1	1	3	2	2	2	2	0	1	2	2	1	2	2	2	1	2	2	1	5	2	1	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	4	2	2	0	1	2		
Lyme RTH 26	3	0	1	1	4	2	4	2	2	2	1	3	0	4	2	2	1	1	1	3	2	1	6	4	1	2	2	2	2	4	0	3	4	1	1	3	2	2	2	4	3	2	12	3	2	2	2	
Lyme RTH 27	2	2	2	3	5	1	2	2	5	2	2	0	2	2	1	1	0	0	0	1	1	2	2	1	2	5	4	2	2	3	2	2	4	1	0	6	2	2	4	4	3	1	3	2	3	2		
Lyme RTH 28	2	2	4	2	5	0	1	1	0	2	2	2	2	2	2	2	0	0	0	6	2	4	2	4	0	2	0	2	4	2	4	0	2	19	0	2	4	2	2	7	2	3	10	2	2	2	1	
Lyme RTH 29	2	6	1	2	2	3	2	2	2	1	6	2	2	0	2	0	0	5	2	1	2	4	3	0	2	2	2	5	2	5	1	2	2	4	1	2	0	2	4	0	4	4	1	1	2	1		
Lyme RTH 30	2	0	1	1	2	2	3	0	2	3	0	2	2	2	1	2	0	0	0	1	2	3	3	1	2	3	3	2	2	4	3	2	3	1	0	4	2	4	12	2	3	4	2	2	2	3		
Lyme RTH 31	2	1	1	0	4	2	2	2	2	0	4	3	0	0	2	2	1	0	0	1	2	2	4	1	2	2	2	2	2	2	2	2	2	1	2	2	2	2	4	2	4	2	2	2	2	3		
Lyme RTH 32	4	0	4	1	6	1	16	0	2	0	0	1	0	4	2	2	0	0	2	1	3	3	6	1	2	4	2	4	2	4	2	0	2	4	2	1	4	2	3	4	2	2	4	1	30	2	1	
Lyme RTH 33	2	1	0	1	3	2	2	2	2	0	2	2	2	0	2	2	1	1	0	2	1	2	2	4	0	2	0	2	2	2	3	0	2	3	2	2	2	2	2	4	3	4	4	2	1	2	2	
Lyme RTH 34	2	1	1	2	0	1	1	2	2	2	2	2	2	0	2	0	0	3	2	2	4	4	2	0	3	2	2	1	2	3	1	2	3	2	1	2	2	2	6	2	4	4	2	1	2	2		
Lyme RTH 35	1	2	12	1	3	16	2	1	5	2	2	4	1	2	4	1	2	0	3	2	2	12	4	1	1	6	3	2	2	2	0	2	2	3	2	6	1	3	6	1	5	2	2	2	1	2		
Lyme RTH 36	0	0	6	0	4	1	6	0	0	4	2	2	2	3	4	2	0	2	0	2	2	2	3	2	4	1	2	0	4	174	2	6	2	3	10	1	0	4	2	2	10	2	4	5	2	4	2	1
Lyme RTH 37	1	1	2	2	4	0	1	2	2	2	4	0	2	1	2	2	0	4	2	2	3	2	3	0	2	2	2	20	2	2	4	1	2	2	2	2	12	2	2	4	2	4	2	0	4	2		
Lyme RTH 38	2	2	0	1	4	2	1	2	0	2	2	4	2	2	1	2	1	1	1	0	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	0	2	1	2	2	2	2	1	2	1	2		
Lyme RTH 39	1	0	2	2	4	4	1	2	0	1	1	0	2	0	2	2	0	0	0	2	1	2	4	1	2	2	2	2	1	2	2	2	2	3	2	0	1	2	2	0	3	1	2	2	0	1	1	1
Lyme RTH 40	2	2	0	0	6	0	2	2	1	0	2	4	0	2	2	2	0	1	2	2	4	16	14	1	3	1	3	1	1	2	2	0	4	4	1	2	4	2	3	4	2	2	2	2	2	2		
Lyme RTH 41	2	0	0	0	4	1	2	2	4	4	0	2	3	2	2	2	0	0	0	2	2	4	0	2	2	2	2	2	2	2	2	2	2	2	1	2	1	4	2	2	3	2	2	2	2	2		
Lyme RTH 42	2	2	1	2	3	0	2	0	2	2	0	2	0	2	2	2	0	2	4	4	2	3	2	4	2	1	1	4	0	2	2	5	2	3	1	2	2	0	1	34	1	2	2	80	2	1	2	
Lyme RTH 43	2	2	1	2	2	0	2	2	10	0	2	2	2	3	2	2	1	0	0	1	2	0	4	0	2	6	3	3	2	4	2	2	2	1	3	3	3	10	4	4	5	4	2	2	4	5		
Lyme RTH 44	4	1	0	0	16	0	6	2	2	6	2	2	4	4	3	4	6	6	0	4	2	4	8	2	2	2	2	4	4	5	1	4	7	0	2	4	4	0	21	6	14	6	10	6	4	5		
Lyme RTH 45	2	1	0	0	8	0	2	4	2	2	4	2	2	5	2	4	2	4	2	2	2	2	4	23	6	2	2	2	2	4	4	5	1	2	3	1	1	2	7	0	10	5	9	4	2	3	6	
Lyme RTH 46	4	1	2	0	19	2	4	6	0	0	0	1	2	2	4	4	0	0	0	2	2	3	5	4	4	1	4	4	4	6	2	3	6	0	2	3	1	1	6	10	12	5	6	4	4	2		
Lyme RTH 47	3	2	1	0	2	2	3	1	3	0	2	4	0	2	2	0	2	2	4	2	2	4	1	5	2	83	1	2	4	9	6	3	2	2	3	2	1	13	49	8	4	2	1	2	2	3		
Lyme RTH 48	3	4	2	4	8	1	2	0	2	3	4	2	1	4	1	2	6	0	1	4	1	2	6	0	2	0	2	0	2	4	3	5	0	2	2	0	2	2	110	0	12	4	14	9	3	2	3	
Lyme RTH 49	2	2	1	0	0	12	2	2	4	4	1	2	4	2	3	2	0	1	2	2	2	2	5	2	2	1	2	4	2	6	2	1	2	0	3	2	0	15	4	13	5	4	2	2	2	3		
Lyme RTH 50	4	0	2	0	36	0	2	1	12	0	2	16	2	2	1	2	0	0	6	1	0	2	0	5	2	2	2	2	2	2	2	2	4	5	1	2	3	2	32	6	4	4	2	2	2	2		
Lyme RTH 51	2	2	5	2	5	2	2	2	4	2	2	2	2	2	2	2	1	2	2	3	2	4	15	5	2	4	2	3	4	2	2	2	1	2	6	0	2	2	4	0	10	4	6	4	2	2	3	
Lyme RTH 52	2	2	1	1	4	2	2	0	1	1	2	2	1	2	1	2	2	1	11	2	2	2	2	2	6	0	1	2	2	2	3	3	2	2	0	2	26	2	10	8	4	3	2	2	2	2		
Lyme RTH 53	3	0	1	1	4	1	2	0	10	2	1	17	1	42	46	17	1	1	30	89	2	1	2	13	2	2	5	76	12	36	10	2	4	3	16	26	99	0	2	48	77	83	6	4	2	2	2	
Lyme RTH 54	2	2	18	2	14	0	2	2	4	0	0	2	1	2	3	2	0	1	4	2	0	2	2	6	1	6	2	2	2	2	1	2	2	3	1	1	2	20	2	4	4	4	15	2	2	2		
Lyme RTH 55	2	2	1	0	6	2	2	8	3	2	0	1	0	3	2	2	2	1	0	0	1	2	2	4	5	3	3	3	4	4	2	2	3	2	2	2	1	2	5	2	6	2	2	2	2	2		
Lyme RTH 56	2	2	2	0	4	2	2	2	7	2	3	3	2	17	2	4	2	3	3	2	1	2	2	4	2	5	2	2	2	2	1	2	2	2	0	3	15	2	5	4	2	4	2	1	3	3		
Lyme RTH 57	3	2	1	4	2	2	2	1	4	2	2	2	0	2	2	2	6	0	2	4	0	3	0	4	1	2	2	1	3	2	3	2	2	2	0	0	2	2	1	6	2	8	4	4	0	2	4	
Lyme RTH 58	4	0	0	0	1	6	2	2	2	11	2	2	1	2	4	2	4	0	2	3	2	2	6	2	4	1	2	6	2	4	4	5	2	2	4	0	4	4	4	2	66	18	10	9	4	3	2	0
Lyme RTH 59	3	2	0	0	7	2	2	65	4	2	1	0	2	4	10	3	2	2	1	4	4	2	5	14	3	45	10	4	4	5	3	6	2	2	6	0	2	8	5	0	18	4	11	14	5	2	2	4
Lyme RTH 60	2	2	0	0	4	2	2	2	2	0	2	4	2	2	2	2	0	2	18	2	1	4	0	2	1	2	2	1	2	1	2	1	2	1	1	1	1	2	1	4	3	2	2	1	2	4		
Lyme RTH 61	2	1	1	0	5	2	2	3	32	1	1	0	0	3	2	2	1	1	2	6	2	3	2	4	6	4	21	2	5	2	4	2	2	2	1	3	2	4	9	7	6	10	4	4	2	3	2	
Lyme RTH 62	3	2	2	1	4	6	1	1	2	1	1	1	0	2	0	0	0	1	0	2	0	2	1	1	2	0	2	2	2	2	2																	

COVID RTH 15	0	2	0	2	4	2	1	1	2	2	2	2	2	2	1	2	1	2	2	2	2	4	2	2	1	1	2	2	4	2	5	0	2	3	0	1	2	2	1	4	2	3	2	2	0	2	1		
COVID RTH 16	2	0	1	2	2	1	2	2	2	2	26	2	2	1	2	1	2	30	3	2	2	1	2	2	0	3	2	2	2	2	0	2	2	19	0	1	2	2	3	1	2	2	1	1	1	2			
COVID RTH 17	1	2	2	1	4	0	2	2	0	1	1	0	8	4	3	0	0	0	4	2	2	2	4	0	2	2	2	8	4	5	1	10	4	0	2	4	3	0	5	4	4	4	4	2	2	2			
COVID RTH 18	2	1	1	2	0	0	2	0	2	2	2	0	0	1	1	1	2	4	3	2	2	3	2	1	2	2	4	1	2	2	2	2	4	2	1	2	2	2	2	2	2	0	0	1	2				
COVID RTH 19	1	0	1	2	4	1	2	5	2	2	2	3	2	2	2	2	0	0	2	2	1	2	2	4	10	0	1	4	1	2	2	0	4	4	1	0	2	2	2	2	2	3	2	6	0	2			
COVID RTH 20	2	4	4	5	5	4	2	2	0	4	2	4	4	4	2	4	1	6	0	10	23	4	3	4	4	4	10	6	2	4	8	10	4	10	7	4	2	2	3	10	1	0	2	4	3	2	5	11	
COVID RTH 21	2	2	0	1	2	2	2	1	1	2	2	2	2	2	2	2	2	0	11	3	28	2	2	2	2	2	4	2	2	2	3	2	2	4	0	2	1	1	0	4	0	2	2	2	0	2	2		
COVID RTH 22	1	2	2	5	2	6	2	2	2	1	2	11	1	2	2	2	1	2	19	2	2	4	2	2	0	17	2	4	2	2	2	0	4	3	4	2	2	6	1	4	2	2	2	1	0	2	2		
COVID RTH 23	2	2	2	1	4	4	2	2	3	1	2	2	2	2	2	1	1	1	2	2	2	2	4	1	3	0	2	2	4	0	2	2	6	2	0	0	2	2	2	4	2	2	2	1	2	1	1	2	
COVID RTH 24	2	2	2	4	4	2	2	2	2	2	2	2	2	2	0	2	1	3	2	2	2	2	2	4	1	2	2	2	2	3	4	1	2	2	0	2	2	3	1	2	2	2	1	2	0	2	2		
COVID RTH 25	2	2	2	5	2	2	2	2	1	2	2	2	4	2	2	4	2	2	4	2	2	2	2	3	0	17	2	2	1	2	2	42	3	3	2	1	2	8	2	4	2	2	2	2	0	0	0		
COVID RTH 26	2	2	2	2	2	0	1	2	1	1	1	2	1	0	0	2	0	4	2	2	2	2	56	2	0	9	1	0	0	2	2	0	6	3	2	0	1	4	3	16	1	2	2	2	1	2	2		
COVID RTH 27	2	2	1	1	2	4	2	2	1	2	4	4	2	2	2	2	2	2	5	2	2	1	5	3	2	1	2	12	6	10	1	4	29	2	0	2	2	2	4	2	2	4	2	1	2	2			
COVID RTH 28	2	0	2	1	4	0	10	1	1	2	1	1	2	3	2	2	1	1	2	8	2	2	2	4	2	4	0	2	4	2	4	0	2	4	0	2	4	0	4	2	4	2	2	5	2	2			
COVID RTH 29	2	0	1	2	2	2	3	2	14	2	1	2	0	2	2	2	1	0	2	4	3	2	3	12	0	64	11	4	4	4	8	3	5	4	1	1	4	32	12	4	3	2	3	4	1	3	2		
COVID RTH 30	2	2	1	0	3	4	2	3	4	4	1	4	1	2	3	2	0	2	2	2	2	3	2	15	4	2	4	2	1	2	3	0	4	3	2	0	2	2	2	4	2	2	2	2	2	2			
COVID RTH 31	2	2	0	2	3	1	2	1	2	2	2	2	2	2	2	2	1	0	1	3	4	2	2	5	2	4	2	2	4	4	9	0	3	3	2	1	2	2	2	4	4	4	3	2	0	3	2		
COVID RTH 32	1	2	1	0	3	3	2	2	1	2	2	2	2	3	2	2	4	0	1	4	2	2	3	6	0	4	3	4	4	4	6	0	2	10	0	2	4	2	1	4	2	3	4	2	0	2	2		
COVID RTH 33	2	1	1	2	3	2	2	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1	4	1	2	1	1	4	2	5	0	19	3	2	0	2	2	1	3	1	2	3	2	2	2
COVID RTH 34	2	2	1	0	0	1	2	3	0	2	2	2	0	2	1	1	2	1	2	2	2	2	4	2	4	2	2	2	2	2	2	2	0	2	2	2	2	2	2	3	0	3	1	2	2	2	1	1	2
COVID RTH 35	2	4	2	3	4	2	2	4	2	4	2	2	2	4	1	1	2	3	2	3	2	4	2	24	2	1	2	14	11	47	8	2	4	2	9	1	10	1	2	2	1	0	4	2	1	1	2		
COVID RTH 36	1	2	0	1	5	2	2	1	2	1	2	2	0	2	0	2	2	1	2	1	1	1	2	2	1	12	0	2	2	4	3	0	2	2	3	1	2	4	2	2	2	2	2	2	2	2	2		
COVID RTH 37	2	0	68	2	4	1	2	2	2	2	1	1	1	2	0	1	1	0	1	2	5	2	2	2	2	2	0	2	3	2	2	4	2	2	3	1	2	2	2	26	2	2	2	1	1	1	1		
COVID RTH 38	2	2	0	2	5	2	2	2	3	4	1	0	2	2	1	2	2	0	2	4	2	4	2	2	2	2	0	3	4	16	6	1	2	59	1	2	2	2	2	3	4	2	4	2	2	13	4		
COVID RTH 39	2	2	4	2	4	2	1	2	4	2	2	5	2	2	2	1	1	0	7	4	3	2	2	2	1	16	4	2	4	2	5	0	3	2	2	1	3	6	3	4	40	4	12	2	2	2	3		
COVID RTH 40	1	2	2	6	5	1	0	4	3	6	2	2	3	1	2	2	0	1	4	2	2	4	2	0	3	4	5	2	4	2	1	3	4	0	2	2	3	2	4	4	10	2	3	2	2	2			
COVID RTH 41	1	1	2	1	4	2	2	2	2	2	2	2	3	1	0	0	0	2	2	2	2	12	2	0	1	2	3	2	2	2	3	2	2	1	2	2	2	2	2	2	1	1	2	1	2	2			
COVID RTH 42	2	0	1	1	2	0	2	0	31	1	2	0	1	2	0	1	2	0	1	2	2	2	2	1	2	2	0	24	2	2	1	3	0	2	2	0	2	2	2	40	3	2	2	2	2	2	2		
COVID RTH 43	2	0	1	0	4	2	2	0	0	2	0	2	1	2	2	2	2	2	2	4	2	2	2	2	1	1	1	6	12	5	10	2	3	3	2	1	4	2	1	4	2	3	5	2	1	2	0		
COVID RTH 44	2	1	1	1	2	1	1	2	1	2	2	2	0	3	2	2	2	6	2	4	2	2	4	4	1	1	1	2	17	8	15	1	2	3	2	1	2	2	2	4	2	4	6	3	1	2	2		
COVID RTH 45	2	0	1	1	0	2	1	8	4	5	1	2	2	2	1	2	2	2	13	2	0	5	1	4	2	1	2	2	0	20	2	1	1	2	1	4	25	1	3	2	2	1	1	3					
COVID RTH 46	2	2	0	2	4	0	2	2	0	2	2	2	2	2	2	0	0	0	2	2	3	2	1	8	2	2	0	1	2	12	6	8	2	2	2	2	2	2	2	1	5	2	2	4	2	1	1	2	
COVID RTH 47	2	0	3	0	6	1	1	0	2	0	2	2	2	2	2	1	1	2	1	0	2	2	2	3	2	0	2	2	18	4	2	4	0	2	4	2	2	6	1	2	3	2	2	2	2	0	2	1	

Details of all antibodies assayed by 3 different Euroimmune antibody panels. Listed below is the full spectrum of antibodies assayed in the study cohorts by the follow-ing Euroimmune lineblot panels: ANA (grey panel), Myositis (yellow panel) and Scleroderma (or-ange panel). Antibody status is assigned as follows: negative (0–5 units), low positive (6–25 units), moderate positive (26–50 units) and strong positive (>50 units).