

Table S1. Comparison of histopathological scores at ABMR diagnosis according to DSA C1q and ABMR C4d status.

	DSA C1q (-) N=31	DSA C1q (+) N=25	P	ABMR C4d (-) N=28	ABMR C4d (+) N=28	P
Interstitial inflammation and tubulitis (i+t), mean (SEM)	1.7 (0.2)	2.0 (0.2)	0.417	1.8 (0.2)	1.9 (0.2)	0.580
Endarteritis (v), mean (SEM)	0.4 (0.1)	0.1 (0.1)	0.167	0.2 (0.1)	0.3 (0.1)	0.381
Microvascular inflammation (g+ptc), mean (SEM)	2.8 (0.2)	3.8 (0.3)	0.009	2.8 (0.2)	3.6 (0.3)	0.024
Interstitial fibrosis and tubular atrophy (ct+ci), mean (SEM)	1.5 (0.3)	2.4 (0.4)	0.094	2.1 (0.3)	1.6 (0.4)	0.122
Transplant glomerulopathy (cg), mean (SEM)	0.9 (0.2)	1.5 (0.2)	0.036	1.5 (0.2)	0.8 (0.2)	0.009
Arteriosclerosis (cv), mean (SEM)	0.8 (0.2)	1.2 (0.2)	0.217	1.0 (0.2)	1.0 (0.2)	0.616
Total inflammation (ti), mean (SEM)	1.5 (0.2)	2.0 (0.2)	0.030	1.8 (0.1)	1.7 (0.2)	0.807

ABMR, antibody-mediated rejection; DSA, donor-specific antibodies; SEM, standard error of mean.

Data were compared by Mann–Whitney U test.

Table S2. Spearman's correlation (*rho*) between injury histopathological scores at ABMR diagnosis and DSA strength (MFI) as measured by SAB-IgG and SAB-C1q assays.

	SAB-IgG MFI	P	SAB-C1q MFI	P
Interstitial inflammation and tubulitis (i+t)	-0.154	0.258	0.132	0.332
Endarteritis (v)	-0.299	0.025	-0.182	0.180
Microvascular inflammation (g+ptc)	0.046	0.735	0.310	0.020
C4d graft deposition	0.291	0.029	0.311	0.020
Interstitial fibrosis and tubular atrophy (ct+ci)	-0.021	0.880	0.224	0.096
Transplant glomerulopathy (cg)	0.016	0.905	0.286	0.033
Arteriosclerosis (cv)	-0.040	0.771	0.111	0.416
Total inflammation (ti)	0.056	0.682	0.337	0.011

ABMR, antibody-mediated rejection; DSA, donor-specific antibodies; MFI, mean fluorescence intensity; SAB, single antigen bead.

Significant correlations are presented in bold.

Table S3. Longitudinal data on kidney graft function and proteinuria according to DSA C1q status.

Time posttransplant	Patients remaining		eGFR (ml/min), median (IQR)			Proteinuria (g/day), median (IQR)		
	DSA C1q (-)	DSA C1q (+)	DSA C1q (-)	DSA C1q (+)	P	DSA C1q (-)	DSA C1q (+)	P
At ABMR	31	25	34.8 (27.9-47.0)	39.1 (25.0-59.0)	0.671	0.4 (0.2-1.0)	0.9 (0.4-1.6)	0.031
6-months	28	19	40.4 (32.8-59.3)	36.7 (25.8-49.0)	0.098	0.4 (0.1-0.9)	0.8 (0.3-1.7)	0.038
1-year	24	17	45.6 (24.7-58.4)	31.6 (20.5-40.0)	0.042	0.2 (0.1-0.7)	0.7 (0.3-1.8)	0.031
2-years	18	13	44.4 (23.1-55.1)	27.1 (18.7-34.9)	0.022	0.2 (0.1-1.1)	1.7 (0.2-2.4)	0.015
3-years	14	7	42.2 (29.3-53.7)	26.1 (21.1-32.9)	0.031	0.1 (0.1-0.6)	1.3 (0.1-2.2)	0.043
4-years	14	6	36.7 (28.4-46.8)	25.5 (22.6-29.4)	0.033	0.3 (0.1-0.8)	1.4 (0.3-2.1)	0.148
5-years	10	3	35.4 (26.2-42.3)	25.7 (22.9-34.4)	0.371	0.2 (0.1-1.1)	0.9 (0.2-2.1)	0.229

DSA, donor-specific antibodies; eGFR, estimated glomerular filtration rate; IQR, interquartile range; ABMR, antibody-mediated rejection.

Data were compared by Mann–Whitney U test.

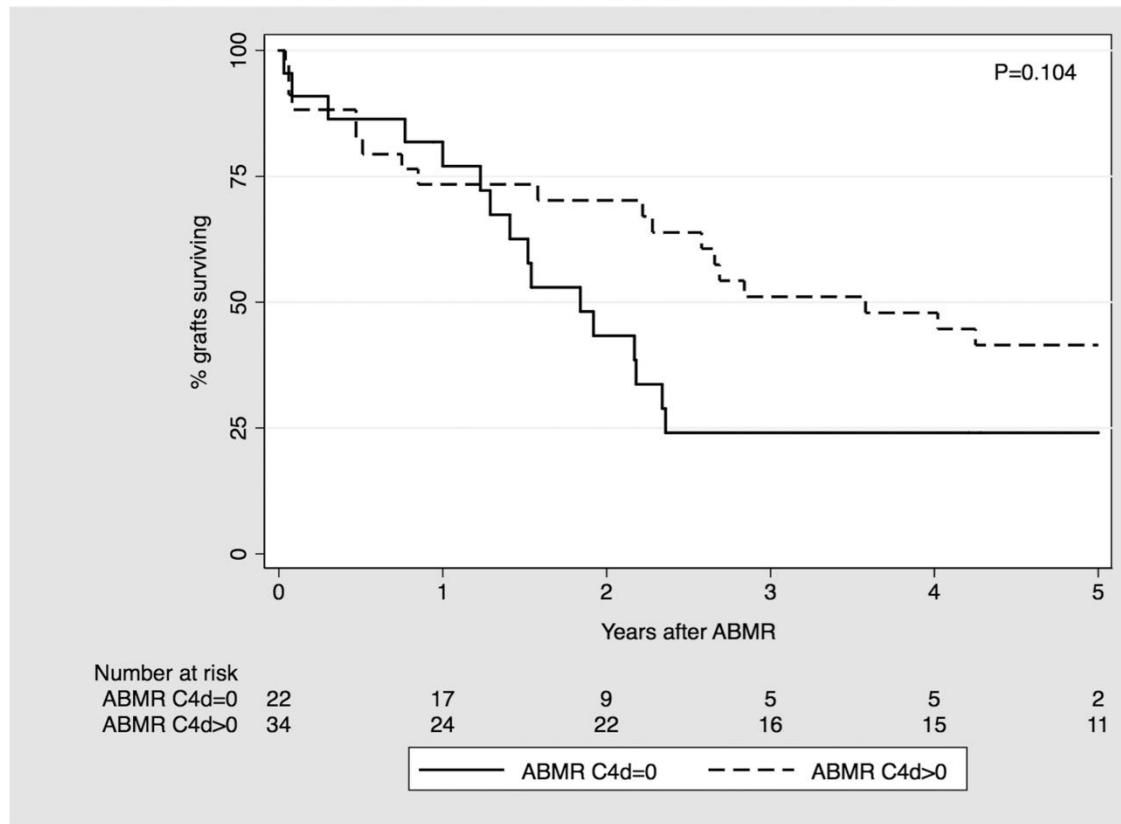


Figure S1. Kaplan-Meier graft survival curves comparisons by ABMR C4d status, considering C4d score >0 as positive [survival at 5-years posttransplant, ABMR C4d=0 24% and ABMR C4d>0 42%]. (P value is presented in the graph)