

**Table S1** Indication for renal biopsy, biopsy result, and Banff scores for patients who underwent biopsy

	Indication for renal biopsy	Biopsy results	Banff scores					
			i	t	g	ptc	ci	ct
1	Surveillance biopsy	IgA nephropathy	1	0	3	0	0	1
2	Elevated serum creatinine value	1. segmental glomerulosclerosis, arteriolar hyalinization 2. IgA nephropathy	1	0	0	0	2	2
3	Albuminuria	IgA nephropathy	0	0	0	0	1	1
4	Elevated serum creatinine value	1. borderline change; 2. membranous nephropathy	1	1	0	1	1	1
5	Elevated serum creatinine value	1. acute T-cell-mediated rejection; 2. chronic antibody-mediated rejection	2	2	0	2	0	1
6	Albuminuria	1. focal segmental glomerulosclerosis; 2. mild chronic tubulointerstitial injury, arteriolar hyalinization	1	0	0	0	1	1
7	Elevated serum creatinine value; albuminuria	1. acute T-cell-mediated rejection; 2. antibody-mediated rejection	2	3	0	3	1	1
8	Elevated serum creatinine value	1. antibody-mediated rejection; 2. partial glomerulosclerosis, mild chronic tubulointerstitial injury	1	0	0	2	1	1
9	Surveillance biopsy	1. focal segmental glomerulosclerosis; 2. acute T-cell-mediated rejection	1	0	1	2	1	1
10	Recurrent diarrhea with fever	partial and segmental glomerulosclerosis, moderate chronic tubulointerstitial injury, arteriolar hyalinization	1	0	0	0	2	2
11	Elevated serum creatinine value	1. acute T-cell-mediated rejection; 2. partial glomerulosclerosis with mild chronic tubulointerstitial injury, arteriolar hyalinization	2	2	0	1	1	1
12	Follow-up biopsy to evaluate for rejection	1. chronic antibody-mediated rejection; 2. mild chronic tubulointerstitial injury with partial glomerulosclerosis	2	1	0	1	2	2
13	Elevated serum creatinine value	antibody-mediated rejection	1	1	0	1	1	1
14	Elevated serum creatinine value	1. IgA nephropathy; 2. segmental glomerulosclerosis, severe chronic tubulointerstitial injury	1	0	0	0	3	3
15	Elevated serum creatinine value	1. acute T-cell-mediated rejection; 2. partial glomerulosclerosis with mild chronic tubulointerstitial injury	2	2	0	1	1	1
16	Elevated serum creatinine value	1. chronic antibody-mediated rejection; 2. IgA nephropathy; 3. segmental glomerulosclerosis, moderate chronic tubulointerstitial injury	0	0	2	1	2	2
17	Elevated serum creatinine value	BK virus nephropathy	2	1	0	0	1	1
18	Elevated serum creatinine value	1. chronic antibody-mediated rejection; 2. acute T-cell-mediated rejection	2	2	2	2	1	1
19	Elevated serum creatinine value	1. thrombotic microangiopathy; 2. moderate chronic tubulointerstitial injury with glomerulosclerosis	1	1	3	2	2	2
20	Elevated serum creatinine value	1. acute tubular necrosis; 2. antibody-mediated rejection; 3. focal segmental glomerulosclerosis; 4. mild chronic tubulointerstitial injury, arteriolar hyalinization	1	0	0	1	1	1