

Table S1. The results of antibody screening tests and antibody identification tests.

A) Reagent Red Blood Cells Selectogen® (Lot no. 8S998), Ortho Clinical Diagnostics™.

Cell	Rh-hr	Rh-hr										Kell				Duffy		Kidd		Gender-linked	Lewis			MNS				P		Lutheran		Diego	Results
		D	C	E	c	e	f	C ^w	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b		Xg ^a	Le ^a	Le ^b	S	s	M	N	P ₁	Lu ^a	Lu ^b	Di ^a		
1	R1R1	+	+	0	0	+	0	0	0	+	+	0	+	nt	+	+	0	+	+	+	0	+	+	+	0	+	0	0	+	+	nt	0	
2	R2R2	+	0	+	+	0	0	0	0	0	+	0	+	nt	+	0	+	+	0	+	+	0	0	+	+	0	+s	0	+	nt	0		

B) Reagent Red Blood Cells Surgiscreen® (Lot no. 3SS393), Ortho Clinical Diagnostics™.

Cell	Rh-hr	Rh-hr										Kell				Duffy		Kidd		Gender-linked	Lewis			MNS				P		Lutheran		Diego	Results
		D	C	E	c	e	f	C ^w	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b		Xg ^a	Le ^a	Le ^b	S	s	M	N	P ₁	Lu ^a	Lu ^b	Di ^a		
1	R1R1	+	+	0	0	+	0	0	0	0	+	0	+	nt	+	0	+	+	+	+	0	0	+	+	0	0	0	+	+	0	0		
2	R2R2	+	0	+	+	0	0	0	0	0	+	0	+	nt	+	0	+	0	+	+	+	0	+	+	+	+	+	+	+	0	0		
3	rr	0	0	0	+	+	+	0	0	+	+	0	+	nt	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	3+		

C) Reagent Red Blood Cells Surgiscreen® (Lot no. 3SS366), Ortho Clinical Diagnostics™.

Cell	Rh-hr	Rh-hr										Kell				Duffy		Kidd		Gender-linked	Lewis			MNS				P		Lutheran		Diego	Results
		D	C	E	c	e	f	C ^w	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b		Xg ^a	Le ^a	Le ^b	S	s	M	N	P ₁	Lu ^a	Lu ^b	Di ^a		
1	R1R1	+	+	0	0	+	0	0	0	0	+	0	+	nt	+	0	+	+	0	0	0	+	+	0	+	0	+	0	+	0	0		
2	R2R2	+	0	+	+	0	0	0	0	0	+	0	+	nt	+	+	+	+	+	+	0	+	+	+	+	0	+s	0	+	+	0		
3	rr	0	0	0	+	+	+	0	0	+	+	0	+	nt	+	+	0	0	+	+	+	0	+	+	+	+	0	0	+	0	3+		

nt Not tested.

D) Reagent Red Blood Cells Resolve Panel C® (Lot no. 8RC403), Ortho Clinical Diagnostics™.

Cell	Rh-hr	Rh-hr										Kell				Duffy		Kidd		Gender-linked	Lewis			MNS				Lutheran		Diego	Results	
		D	C	E	c	e	f	C ^w	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b		Xg ^a	Le ^a	Le ^b	S	s	M	N	P ₁	Lu ^a	Lu ^b		Di ^a
1	R1wR1	+	+	0	0	+	0	+	0	0	+	0	+	nt	+	0	+	0	+	0	+	0	+	+	+	+	+	0	+	nt	0	
2	R1R1	+	+	0	0	+	0	0	0	+	+	0	+	nt	+	+	+	+	+	0	+	0	+	+	+	0	+s	0	+	nt	0	
3	R2R2	+	0	+	+	0	0	0	0	0	+	0	+	nt	+	0	+	+	+	+	+	0	+	0	+	+	+	+	0	+	nt	0
4	R0r	+	0	0	+	+	+	0	0	0	+	0	+	nt	+	0	0	+	+	0	0	0	+	0	+	+	+	+s	0	+	nt	3+
5	r'r	0	+	0	+	+	+	0	0	0	+	0	+	nt	+	+	+	+	0	0	0	+	0	+	+	+	0	0	+	nt	2+	
6	r'r	0	0	+	+	+	+	0	0	0	+	0	+	nt	+	+	0	+	0	+	+	0	+	0	+	+	0	+	0	+	nt	3+
7	rr	0	0	0	+	+	+	0	0	+	+	0	+	nt	+	0	+	+	0	+	+	0	+	+	+	+	+s	0	+	nt	3+	
8	rr	0	0	0	+	+	+	0	0	0	+	+	+	nt	+	+	+	0	+	+	0	0	+	+	+	+	0	+	nt	3+		
9	rr	0	0	0	+	+	+	0	0	0	+	0	+	nt	+	+	0	+	+	+	0	0	0	0	0	0	0	+	nt	3+		
10	rr	0	0	0	+	+	+	0	0	+	+	0	+	nt	+	+	+	0	+	+	0	0	0	+	0	+	+s	0	+	nt	3+	
11	R1R1	0	+	0	0	+	0	0	0	0	+	0	+	nt	+	0	+	0	+	+	+	+	+	+	+	+s	+	+	nt	0		
Patient cells																												0				

E) ID-DiaPanel® (Lot no. 45161.78.x), BIO-RAD.

Cell	Rh-hr	Rh-hr										Kell				Duffy		Kidd		Lewis		P	MNS				Lutheran		Xg	LISS-Coombs Results
		D	C	E	c	e	C ^w	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Le ^a	Le ^b	M	N		S	s	Lu ^a	Lu ^b	Xg			
1	R1wR1	+	+	0	0	+	+	0	+	0	+	nt	nt	+	0	+	0	0	+	+	0	+	0	+	+	0	+	+	0	0
2	R1R1	+	+	0	0	+	0	+	+	0	+	nt	nt	0	+	+	+	+	0	+	+	0	+	0	+	0	+	0	0	0
3	R2R2	+	0	+	+	0	0	0	0	+	0	+	nt	nt	+	0	0	+	0	+	0	+	0	+	0	+	0	+	0	0
4	r'r	0	+	0	+	+	0	0	0	+	0	+	nt	nt	+	+	0	0	+	+	0	+	+	0	+	0	+	0	+	2+
5	r'r	0	0	+	+	+	0	0	0	+	0	+	nt	nt	+	+	0	0	+	+	0	+	+	0	+	0	+	0	+	3+
6	rr	0	0	0	+	+	0	+	+	0	+	nt	nt	+	0	+	+	+	0	0	+	+	0	+	0	+	+	+	4+	
7	rr	0	0	0	+	+	0	0	+	+	+	nt	nt	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	4+
8	R0r	+	0	0	+	+	0	0	0	+	0	+	nt	nt	0	0	+	0	+	0	+	+	0	+	+	0	+	+	3+	
9	rr	0	0	0	+	+	0	0	0	+	0	+	nt	nt	0	+	0	+	+	0	0	0	0	+	+	+	+	+	4+	
10	rr	0	0	0	+	+	0	0	+	0	+	nt	nt	0	+	+	0	0	0	+	+	0	+	0	+	+	+	+	4+	
11	rr	0	0	0	+	+	0	0	+	0	+	nt	nt	+	0	+	0	0	0	+	+	0	+	+	0	+	+	+	4+	
Patient cells																												0		