

ABID CASE #23

1. What is the probable identity of this antibody(ies)? How did you reach that conclusion?
2. Is any further workup needed to prove it? If additional cells must be tested, select them from the following panel. Attempt to complete the workup with as few additional tests as possible.

Cell	Rh	Rh system						Kell					Duffy		Kidd		Xg	Lewis		MNSs				P		Lutheran		Other Typings	Cell	Gel		
		D	C	E	c	e	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	PI	Lu ^a	Lu ^b					
1	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	C ^w , Co ^b	1	
2	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	+	0	+	0	+	+	0	+	+	0	+	0	+		2	
3	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	+	+	0	+	+	0	+	+	+	+	+	0	+	0	+		3		
4	R1R1	+	+	0	0	+	0	0	+	0	+	+	+	0	+	+	0	+	+	0	0	+	+	+	+	0	+		4			
5	RzR1	+	+	+	0	+	0	0	+	0	+	0	+	+	0	+	+	0	0	+	+	0	0	+	+	0	+		5			
6	RzR2	+	w	+	+	0	0	0	+	0	+	0	+	+	0	0	+	0	0	+	+	+	+	+	0	+		6				
7	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	0	+	0	0	+	0	+	+	0	+	0	+	0	+		7			
8	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	+	0	+		Co ^b , Yt ^b	8		
9	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	+	0	+	+	0	+	+	0	+		9				
10	R1r	+	+	0	+	+	0	0	+	+	0	0	+	+	+	+	+	0	+	+	+	+	+	0	0	+		Yt ^b	10			
11	r'r	0	+	0	+	+	0	0	+	0	+	0	+	+	0	+	+	0	+	0	+	+	0	+	0	+		11				
12	r''r	0	0	+	+	+	0	0	+	0	+	0	+	+	0	0	+	+	+	+	+	+	0	0	+		12					
13	rr	0	0	0	+	+	0	+	+	0	+	0	+	+	+	0	+	0	+	+	+	+	0	+	+	+		13				
14	rr	0	0	0	+	+	0	+	+	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	+		Yt ^b	14				
15	rr	0	0	0	+	+	+	0	+	0	+	0	+	0	0	+	+	0	+	+	+	+	0	+	0	+		15				
16	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	+	+	0	+	0	0	0	+		Yt ^b	16				
17	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	+	0	+		Co ^b , Yt ^b	17				
18	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	+	0	+	+	+	+	0	+		18					
19	rr	0	0	0	+	+	0	0	+	0	+	0	+	0	+	0	+	+	+	+	+	0	+	0	+		19					
20	Ror	+	0	0	+	+	+	0	+	0	+	+	+	0	0	+	+	0	0	0	+	+	+	+	0	+		20				
Patient																													AC			

3. Does this antibody(ies) cause hemolytic transfusion reactions? Hemolytic disease of the fetus and newborn?
4. How would we select compatible blood in this case? Would selection of any particular IAT technique be useful in deciding how to select compatible RBCs?
5. What cells in the above panel likely come from donors of African descent?