

ABID CASE #4

Questions:

1. What is the probable identity of this antibody?
2. Is any further workup needed to prove it? If additional cells must be tested, select them from the following panel.

Lot #51877		Rh system						Kell						Duffy		Kidd		Lewis		P	MNSs				Lutheran		Xg	Other Typings	Cell	Gel					
Cell	Rh	D	C	c	E	e	V	K	k	Kp ^a	Kp ^b	Js ^a	Js ^b	Fy ^a	Fy ^b	JK ^a	JK ^b	Le ^a	Le ^b	P1	M	N	S	s	Lu ^a	Lu ^b	Xg ^a								
1	R1wR1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	+	0	+	+	+	+	0	+	0	+	+	C ^w	1						
2	R1R1	+	+	0	0	+	0	+	+	0	+	0	+	+	0	0	+	0	+	+	0	+	0	+	0	+	+	Bg(a+)	2						
3	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	+		3						
4	R1R1	+	+	0	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	0	0	+	0	+	0	+	+		4						
5	RzR1	+	+	0	+	+	0	0	+	0	+	0	+	+	0	+	+	0	+	+	+	+	0	+	0	+	+		5						
6	RzR2	+	w	+	+	0	0	0	+	0	+	0	+	0	0	+	0	+	0	+	+	0	0	+	+	+	0	Co(b+)	6						
7	R2R2	+	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	+	0	+	+		8						
9	R2R2	+	0	+	+	0	0	0	+	0	+	0	+	+	+	0	+	0	+	+	+	+	+	0	0	+	+		9						
10	R1R2	+	+	+	+	+	0	0	+	0	+	0	+	+	0	+	0	0	+	+	0	+	0	+	+	+	+	Co(a-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	0	+	0	+	0		12						
13	Rr	0	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	+	0	+	+	+	+	+	+	+	+		13						
14	Rr	0	0	+	0	+	0	0	+	0	+	0	+	+	+	+	+	0	+	+	0	+	0	+	0	+	+	Di(a+)	14						
15	Rr	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	+	+	+	Co(b+)	16						
17	Rr	0	0	+	0	+	0	+	+	0	+	0	+	+	+	+	0	0	+	+	+	0	+	+	+	+	+		17						
18	Rr	0	0	+	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	0	0	+	+		18						
19	Rr	0	0	+	0	+	0	0	+	0	+	0	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+		19						
20	Ror	+	0	+	0	+	+	0	+	0	+	0	+	0	0	+	+	0	0	+	+	+	0	+	0	+	+		20						
Patient																												AC							

3. What is the probable source of the immunizing stimulus in this case?
4. Does this antibody cause hemolytic transfusion reactions?
5. Does this antibody cause hemolytic disease of the fetus and newborn?
6. How would we select compatible blood in this case? What percent of donors is expected to be compatible with this recipient?