ALBA

Harness the power of 20

Combine the ALBAcyte® Antibody Identification Panel (16-cell)
with the ALBAcyte® Expanded Rh Negative Antibody Screen (4-cell)
to tackle complex antibody workups.

AliveDx

Resolve more with 16 + 4

ALBAcyte® Antibody Identification Panel (16-cell)

(Z473U)

There will always be at least one cell that is K+k- (cellano negative).

There will always be 4 rr cells. Within those cells, there will always be at least one of each phenotype:
S+s-, S-s+
Fy(a+b-), Fy(a-b+)
Jk(a+b-), Jk(a-b+)

The $R_1^{w}R_1$ cell will always be K-.

ALBAcyte® REAGENT RED BLOOD CELLS FOR IDENTIFICATION OF UNEXPECTED ANTIBODIES
Antibody Identification (16-Cell) – REF Z473U

AliveDx

			Rh-hr								Kell						Duffy		Kidd		Lewis		MNS					P	Lutheran		Additional Antigens			TEST RESULTS				
Cell #	Rh-hr	Donor	D	C	E	c	e	f	*V	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	P1	Lu^{a}	Lu^{b}	Xg^{a}	Wr^{a}	Special Types					Cell #
1	$R_1^{w}R_1$	4395030	+	+	0	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	+	0						1
2	R_1R_1	2096854	+	+	0	0	+	0	0	0	+	+	0	+	0	+	+	0	+	+	0	+	+	+	+	0	0	0	+	0	0						2
3	R_2R_2	4444324	+	0	+	+	0	0	0	0	0	+	0	+	0	+	+	+	+	+	0	+	+	0	+	0	0	0	+	+	0						3
4	r'r	4153517	0	+	0	+	+	+	0	0	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0	0						4
5	r''r	4171437	0	0	+	+	+	+	0	0	+	+	0	+	0	+	0	+	0	+	0	+	+	+	+	+	+	0	+	0	0						5
6	R_0r	334239	+	+	0	+	+	+	0	0	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	+	+	0	+	0	0						6
7	rr	3435984	0	0	0	+	+	+	0	0	+	+	0	+	0	+	+	0	+	0	0	+	0	+	0	+	+	0	+	0	0						7
8	rr	3504218	0	0	0	+	+	+	0	0	0	+	+	+	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	0						8
9	rr	6097070	0	0	0	+	+	+	0	0	0	+	0	+	0	+	0	+	+	+	+	0	+	+	0	+	+	0	+	+	0						9
10	rr	4313419	0	0	0	+	+	+	0	0	0	+	0	+	0	+	+	0	0	+	0	0	0	+	0	+	0	0	+	+	0						10
11	R_1R_z	4295417	+	+	+	0	+	0	0	0	+	+	0	+	0	+	+	0	+	+	0	+	+	+	0	+	+	0	+	+	0						11
12	R_1R_1	1071-140-6	+	+	0	0	+	0	0	0	0	+	0	+	0	+	+	+	+	+	0	+	+	+	+	0	+	0	+	+	0						12
13	rr	1000171044	0	0	0	+	+	+	0	0	+	0	0	+	0	+	+	+	+	+	0	+	0	+	0	+	+	0	+	+	0						13
14	R_2R_2	8302230101019	+	0	+	+	0	0	0	0	+	+	0	+	0	+	+	+	+	+	0	+	+	+	0	+	+	0	+	+	0						14
15	R_2R_z	5026993	+	+	+	+	0	0	0	0	+	+	0	+	0	+	+	+	0	+	0	+	+	+	+	+	+	0	+	+	0						15
16	rr	141388	0	0	0	+	+	+	0	0	0	+	0	+	0	+	0	0	+	0	0	+	+	+	+	+	+	0	+	+	0						16
Patients cells																																				

The $R_1^{w}R_1$ cell will always be K-.

There will always be two Fy(a-b-) cells. One will be R_0; one will be rr.

At least one cell will be Le(a-b-).

Cell #11 will be R_1R_z, useful for ruling out Anti-E in the presence of Anti-c. Cell #15 will be R_zR_z or a rare cell.

Anti-K will not be masked by antibodies to Jk^{a}, Jk^{b}, Fy^{a}, Fy^{b}, S or s

ALBAcyte® Expanded Rh Negative Antibody Screen (4-cell)

(Z464U)

An additional r'r cell for ruling out Anti-C in the presence of Anti-D.

An additional r''r cell for ruling out Anti-E in the presence of Anti-D.

The K+ cell will always be D-.

Within the 3 RhD negative cells, there will be at least one of each phenotype:
Fy(a+b-), Fy(a-b+)
S+s-, S-s+
Le(a-b+), Le(a+b-)
Jk(a+b-), Jk(a-b+)

ALBAcyte® REAGENT RED BLOOD CELLS FOR IDENTIFICATION OF UNEXPECTED ANTIBODIES
Expanded Rh Negative Antibody Screen – REF Z464U

AliveDx

			Rh-hr							Kell						Duffy		Kidd		Lewis		MNS				P	Lutheran		Additional Antigens			TEST RESULTS				
Cell #	Rh-hr	Donor	D	C	E	c	e	f	*V	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	P1	Lu^{a}	Lu^{b}	Xg^{a}	Wr^{a}	Special Types					Cell #
1	r'r	6042952	0	+	0	+	+	+	0	0	0	+	0	+	0	+	0	+	+	+	0	0	+	+	+	+	+	0	+	0	0						1
2	r''r	3300585	0	0	+	+	+	+	0	0	0	+	+	+	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	+	0						2
3	rr	1082646	0	0	0	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0	+	+	+	+	0	0	0	+	+	0						3
4	R_0R_0	DN20080985	+	0	0	+	+	+	0	0	0	+	0	+	0	+	0	0	+	+	0	+	+	0	+	+	+	0	0	0	0						4
Patient Cells																																				

Notes:
1. All cells are DAT negative.
2. NT = Not tested.
3. The f antigen status has been determined presumptively.
4. Cell #4 is designated as R_0R_0 based on statistical probability for the source donor population but a genotype of R_0r cannot be excluded.

*Indicates those antigens whose presence or absence may have been determined using only a single example of a specific antibody.

Cell #4 may be used to confirm Anti-D (D+C-E- cell).

Statistically likely to be a double dose of the D antigen.

The R_0R_0 cell is always Fy(a-b-).

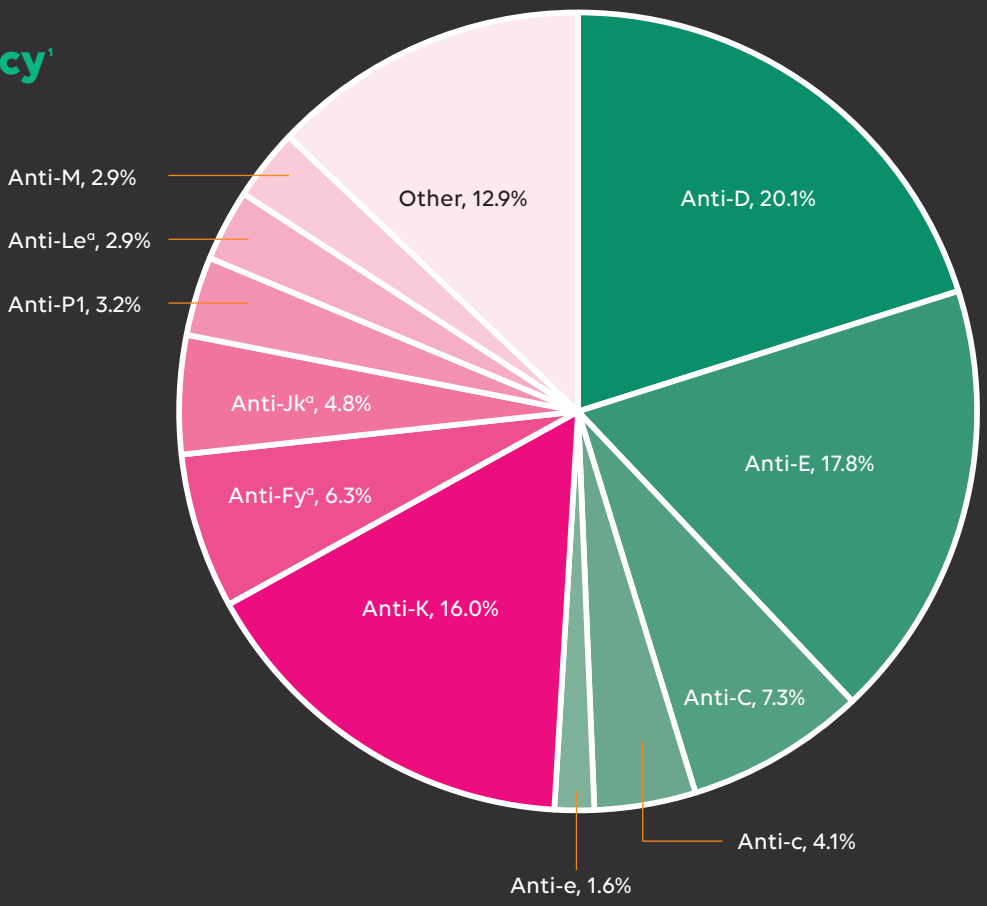
Reliable source of additional IN-DATE CELLS you select most often for:
- ***Ruling out common antibodies***
- ***Quality control of C, E, c, e and K antisera***

AliveDx

ALBA

Combining 16 + 4 resolves the antibodies you see most often

Alloantibody frequency[1]



Most common alloantibody combinations[2]

Anti-K + Anti-E
Anti-D + Anti-C
Anti-E + Anti-c

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1. *Petras ML, Leach MK, Szczepiorkowski ZM, Dunbar NM. Red blood cell alloantibodies: a 45-year historical review at a rural tertiary care center. [Letter to the editor]. Transfusion 2012;52:1380-2.*
2. *Tormey CA, Stack G. The characterization and classification of concurrent blood group antibodies. Transfusion 2009;49:2709-18.*

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