

Red Cell Immunohaematology





What is RCI?



- National support for Transfusion Laboratories
- RCI labs located in Blood Centres in Birmingham, Bristol (Filton), London (Collindale, Tooting), Liverpool and Sheffield
- Liverpool hosts the NFFB and reagents
- Filton hosts the IBGRL
- Majority of blood transfusions can be facilitated by hospitals, BUT..









- If there is any doubt concerning the identity of any antibodies present, or the ability to exclude clinically significant antibodies, a sample should be sent to a red cell reference laboratory.
- Laboratories that are not registered for antibody investigation in an accredited external quality assurance scheme should refer samples from all patients that have given positive results in the antibody screen to a laboratory that is registered for antibody identification.







- If a patient is known to have (ever) formed a red cell alloantibody, each new sample must be fully tested to exclude the presence of further alloantibodies.
- When one antibody specificity is detected it is essential that the presence or absence of additional clinically significant alloantibodies is established.





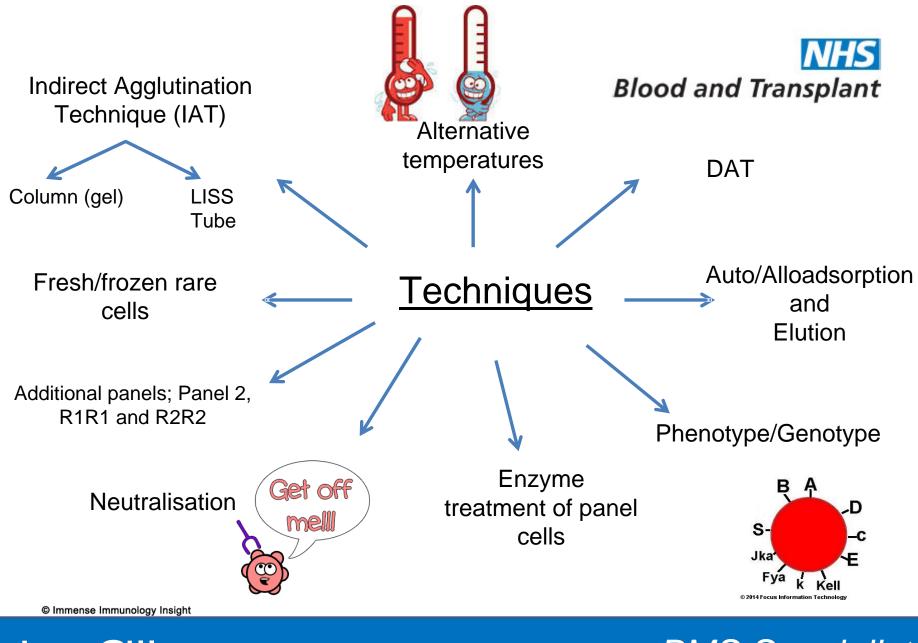
Why Refer to RCI?



- Rare/Anomalous ABO/D blood grouping
- Antibody Confirmation/Identification
- Complex mixtures of antibodies
- Antenatal Investigations;
 - Quantification and titration
 - FMH Investigation
 - Provision of suitable blood for delivery/IUT
- AIHAs/ DAT positive patients
- Suspected Haemolytic Transfusion Reactions
- Advice!
- Panic?







Jess Gill



- Via NHSBT Liverpool and in liaison with the International Blood Group Reference Laboratory (IBGRL) ROI have access to additional reagents that may not be available to Hospital Labs;
 - Reference antibody identification panels Rare cells to confirm or exclude specificity
 - Rare antisera for phenotyping
 - National Frozen Cell Bank
 - National / international rare cell exchange
 - WHO International Rare Cell Donor Panel







- Antibody specificity should only be assigned when the plasma is reactive with at least 2 examples of reagent red cells expressing the antigen and non-reactive with at least 2 examples of reagent red cells lacking the antigen.
- When one antibody specificity has been identified, it is essential that the presence or absence of additional clinically significant antibodies should be established. This can be demonstrated by choosing reagent red cells that are negative for the recognised specificity but positive for other antigens to which clinically significant antibodies may arise.





 Failure to recognise all of the antibody specificities within a sample can lead to a haemolytic transfusion reaction.
Specificities should be excluded using red cells having homozygous expression of the relevant antigen. A single example only of each phenotype is sufficient for exclusion.



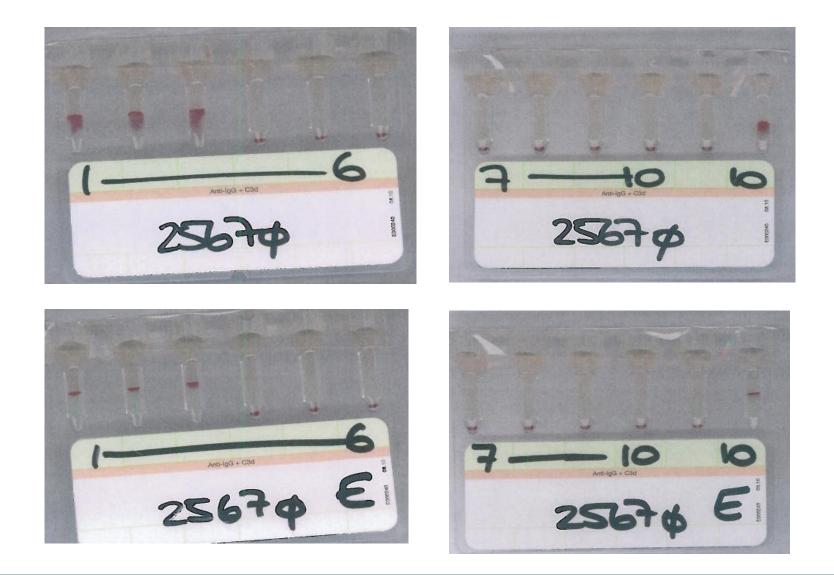




Example Cases











NHSBT Reagents Panel 1

Antibody Investigation Worksheet

Sample	Name					Reques	tor					Data	base Re	ef No.				Tested by				_
Date of	Birth			- 19-		Hosp no		_				Sam	ple No.					Date Test	ed			
			-	Lot No.		Product				Lot No.		Produ				Lot		Product			Lot No.	
Produc Panel in	n Alsevers	-	-	R144 32	88	Panel in	CellSta	b		R143 32	288	Panel	in CellN	ledia			3 3288	Panel in L	ISP ATE: 2014.	01 09	R146 328	5
	apainised i	in Alsever	5	R154 32		Panel P	apainise	d in Cel	IStab	R153 3	1	and the second se		1	ellMedia	-	3 3288			01.05	T	-
	Rh	M	N	S	\$	P1	Lu*	K	k	Kp ^a	Leª	Leb	Fy*	Fy	Jka	Jk ^b	Other		ON2			-
1	R1 ^w R1	0	+	0	+	5	0	+	+	0	0	+	0	+	0	+	MAR weak		5			
2	R ₁ R ₁	+	+	+	0	0	0	0	+	0	+	0	+	0	+	0		8	2	-		\vdash
3	R ₂ R ₂	0	+	0	+	3	0	0	+	0	+	0	0	+	+	0		5	5	-	_	⊢
4	r'r	+	0	+	0	3	0	0	+	0	0	+	0	+	+	0	Cob+	0	0			\vdash
5	r"r	+	0	+	0	0	0	0	+	0	0	+	+	0	0	+		0	0	-		-
6	rr	+	0	0	+	0	0	+	0	0	0	+	0	+	+	0		- 2	18-	-		+
7	rr	+	0	+	0	0	0	+	+	0	0	0	w	0	+	0		0	12	-		+
8	rr	0	+	0	+	2	0	0	+	+	0	+	+	0	+	0		9	0			+
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+		0	0	-		+
10	rr	+	0	+	0	2	+	0	+	0	+	0	0	+	0	+	Cob+	0	0			+
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Antibo	dy Titre													Grou	p			Phen	0			
Dilution:												Cel	lld			_						-
Anti-														Cond	lusion							
Archive											_		_									
Anti														-								
Archive													_	-								
DAT B	atch No										_											
PS	3	lgG	T	IgA		IgM		C30	0	C3	d	0	tl	Ente	red into				diam'r a d	here		
											_			Data	base by			AI	unorised	бу Г		
Reagen	t			1									_									-
Batch																						
No's	batch No's				_				-	-											durp	_





Have a go yourself!





FORM FRM786/2.1

Effective: 11/04/13

Sample	Name					Reques	tor		+			Data	base R	ef No.				Tested by	1			
Date of	Birth					Hosp n	0					Sam	ple No.					Date Test	ed			
Produc	t			Lot No.	-	Produc	t			Lot No.		Produ	ct			Lot	lo.	Product			Lot No.	
	n Alsevers			R144 331		Panel in	n CellSta	b		R143 3		Panel	in Cell	ledia			3312	Panel in L			R146 33	12
Panel P	apainised	in Alsever	rs	R154 331	12	Panel P	apainise	d in Ce	llStab	R153 3	312	Panel	Papani	sed in Co	ellMedia	R173	3312	EXPIRY D	DATE: 20	14.12.11		
	Rh	M	N	S	s	P1	Luª	к	k	Kp*	Le*	Le ^b	Fy*	Fy ^b	Jk ^a	Jk ^b	Other	IAT	EN2			
1	R1 ^w R1	0	+	0	+	3	0	0	+	0	0	+	+	0	0	+		3	0			
2	R ₁ R ₁	+	0	+	0	2	0	+	+	0	0	+	0	+	+	0		0	0			
3	R ₂ R ₂	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		3	5			
4	r'r	0	+	0	+	5	0	0	+	0	0	0	+	+	0	+		3	5			1
5	r"r	+	0	+	0	2	0	0	+	0	+	0	+	0	+	0	Rg-	3	5			1
6	rr	+	+	0	+	2	0	+	0	0	0	+	0	+	+	0	Chido-	3	5			1
7	rr	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		3	5			1
8	rr	+	0	0	+	0	0	0	+	+	0	+	0	+	0	+		3	5			1
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+		3	5			-
10	rr	0	+	0	+	3	+	0	+	0	0	0	+	0	+	0		3	5			
Auto										-		-		-				0	0			
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Antibo	dy Titre									1				Group	p			Pheno)	L	<u> </u>	1
Dilution:						1		T	T		T	Cell	ld		RhD	Pos		C"a-	Eetk	Ffula-	br) Jk(a	+6-)
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Archive	5					-			-					PATIE	NT1	ANTE	UTAL 28	WEEK (SAMPL	E		
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Archive			1																			
DAT B	atch No					-	<u> </u>					1										
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						-								Datab	ase by	·		Au	thorised	by		
Reagen	t			1					_	1		-				1		Т				
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Vo's	batch No's									1												



FORM FRM4104/1.1

Sample	Name					Reques	tor	-				Data	base R	ef No.				Tested	by	T			
Date of	Birth					Hosp n					1	Sam	ple No.					Date Te	sted				
Produc	t			Lot No		T														1			
	ice Panel 1			R201 3	178	1.1										EXPIRY	DATE : 2014	.12.25					
Referen	nce Panel 1	in Cells	tab	R202 3	178		-								1	L			<u> </u>				-
2	Rh	M	N	S	s	P1	Lu ^a	K	k	Kp*	Leª	Le ^b	Fy ^a	Fy ^b	Jka	Jk	Other	IA					_
1	R1wR1	+	0	+	0	3	+	0	+	0	+	0	0	+	+	0		0			- 1- 1-		
2	R1wR1	0	+	0	+	4	0	0	+	0	0	+	+	0	0	+		3)					
3	R1RZ	+	+	+	0	0	0	0	+	0	0	+	+	0	+	0		3					
4	R1RZ	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		0					
5	Ror	0	+	0	+	4	0	0	+	0	0	0	0	0	+	0	V+ VS+	3)				
6	R1r'	0	+	0	+	4	0	+	0	0	0	+	+	0	0	+		3					
7	R1R1	+	0	+	0	3	0	+	+	0	0	+	0	+	+	0		0					
8	R1R1	0	+	0	+	0	0	0	+	+	+	0	+	0	+	0		3					T
9	R1R1	+	0	0	+	2	+	0	+	0	+	0	0	+	0	+		C	,				T
10	R1R1	0	+	+	0	3	0	0	+	0	0	+	0	+	0	+		0					\top
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Antibo	dy Titre				1	-								Grou	р				Pheno				
Dilution						1						Cell	Id					1.					
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Archive	*					-		1.1				1	1	Conc	lusio	n							
Anti												2											
Archive	-					-		5	-				-										
	atch No					1.11	1																
PS	5	lgG	-	lgA		lgM	-	C30	;	C3	d	C	tl	Enter					uthoric	ed by			
Reagen	+			1						1		nin des Salos	T		ase L	1		/	autoris	eu by.	<u> </u>		
Batch				-			-				-					+			_		-		
No's																							

NBS Reagents

Reference Panel 1 Worksheet



FORM FRM786/2.1

Effective: 11/04/13

NHSBT Reagents Panel 1

Antibody Investigation Worksheet

Sample	Name					Reques	tor					Data	abase F	tef No.				Tested by				
Date of	Birth			1.750		Hosp n	0				9	Sam	ple No		1	10		Date Test	ed	-		
	t n Alsevers Papainised i	n Alseve	15	Lot No. R144 33 R154 33			t n CellSta Papainise		liStah	Lot No. R143 3 R153 3	312		in Cell	Wedia sed in Ce	allMedia		No. 3 3312 3 3312	Product Panel in L EXPIRY D		14 12 11	Lot R14	No. 6 3312
	Rh	M	N	S	s	P1	Lu	K	k	Kp*	Le*	Leb	Fy ^a	Fyb	Jka	Jkb	Other	and the second second	ENZ	14.12.11		
1	R1"R1	0	+	0	+	3	0	0	+	0	0	+	+	0	0	+	Other	IAT	O	-		
2	R ₁ R ₁	+	0	+	0	2	0	+	+	0	0	+	0	+	+	0		0	0	-		-
3	R ₂ R ₂	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		0	0		-	
4	r'r	0	+	0	+	5	0	0	+	0	0	0	+	+	0	+	-	0	0			
5	r"r	+	0	+	0	2	0	0	+	0	+	0	+	0	+	0	Rg-	0	0		-	-
6	rr	+	+	0	+	2	0	+	0	0	0	+	0	+	+	0	Chido-	0	0		-	
7	rr	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		0	0			
8	rr	+	0	0	+	0	0	0	+	+	0	+	0	+	0	+		WK	1			
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+		0	0		-	-
10	rr	0	+	0	+	3	+	0	+	0	0	0	+	0	+	0		0	0			-
Auto										1						-		0	0			
	ORIRI	0	+	0	+	0	0	0	+	+	0	+	+	+	0	+		WK	I		-	
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				1						5												
Antibo	dy Titre	T.	1	1	1	1		-		-		Cell	Id	Group	0	2001	Pos	Pheno C [†] c [†]		-K-	1	10
Anti-			-		-	-			-		1			Concl								
Archive				-					-		-	1	8	PATIEN	JT 2:	ss pr	eoperation	ve path	ent, re	quires	\$ 20	XW.
Anti								+	-				e. 7									. 1
Archive	1	1.									-											
DAT B	atch No					1	I				_	-										
PS		lgG	-	lgA		lgM		C3c		C3d	1	Ct	tl	Entere					hariaca			
Reagen													1	Datab	ase by:			Aut	norisec	y		



Batch

Jess Gill

Effective: 11/04/13

	T Reagent	s P	anel	1						Antiboo	ly Inve	estigati	ion W	orkshee	et							
Sample	Name					Reques	stor					Data	abase F	Ref No.				Tested by	'			
Date of	Birth					Hosp n	0					Sam	ple No					Date Test	ed			
Produc	at I			Lot No.		Produc	t			Lot No.		Produ	ct			Lot	No.	Product			Lot No.	
	n Alsevers			R144 331			n CellSta			R143 3			in Cell				63 3312	Panel in L	ISP	14.	R146 3312	-
Panel I	Papainised	in Alseve	ers	R154 331	2	Panel F	apainis	ed in Ce	llStab	R153 3	312	Panel	Papan	ised in Ce	ellMedia	R1	73 3312	EXPIRY D	DATE: 20	CONTRACTOR OF THE OWNER.		
1	Rh	M	N	S	s	P1	Lu*	к	k	Kp*	Le*	Le ^b	Fy*	Fy ^b	Jk ^a	Jk ^b	Other	IAT	EN2	TUBE	BUATE	
1	R ₁ ^w R ₁	0	+	0	+	3	0	0	+	0	0	+	+	0	0	+	1. 4. 5. 1	0	0	0	0	-
2	R ₁ R ₁	+	0	+	0	2	0	+	+	0	0	+	0	+	+	0		0	0	0	wK	
3	R_2R_2	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		6	0	0	D	
4	r'r	0	+	0	+	5	0	0	+	0	0	0	+	+	0	+		D	0	0	0	
5	r"r	+	0	+	0	2	0	0	+	0	+	0	+	0	+	0	Rg-	0	0	0	1	
6	rr	+	+	0	+	2	0	+	0	0	0	+	0	+	+	0	Chido-	0	0	0	WK	
7	rr	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		0	0	0	0	
8	rr	+	0	0	+	0	0	0	+	+	0	+	0	+	0	+		0	0	0	0	
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+	1	0	Ô	0	0	
10	rr	0	+	0	+	3	+	0	+	0	0	0	+	0	+	0		0	0	0	WK	
Auto																		5	0	0		
	-			-			-			-	16						Van d	0		-		
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Antibo	dy Titre	1				1							L	Group			XM 4			$D = + \Gamma$	e+K-	-
Dilution	ay nee		-		1				-		1	Cell	Id		ORh	Dn	ea	Tran	chuco	de la	able to de	lani
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Effective: 11/04/13

NHSBT Reagents Panel 1

Antibody Investigation Worksheet

Sample	Name					Reques	tor		_			Data	abase R	ef No.				Tested by				
Date of	Birth			1		Hosp n	o					Sam	ple No.		1			Date Test	ed			
and the second designed on the	Alsevers			Lot No. R144 33	and the second se	Product Panel in	CellSta			Lot No R143 3	312		in Cell				3 3312	Product Panel in L				t No. 46 3312
Panel P	apainised i	1 1		R154 33	I	1	apainise		T	R153 3	1			sed in C	Jka	Jkb	3 3312	EXPIRY D	EN2	PHINH		SAL
1	Rh R1 ^w R1	M	N	S	S	P1	Luª	K	k	Kp*	Leª	Le ^b	Fyª	Fy ^b			Other		-		370	
the second		0	+	0	*	3	0	0	+	0	0	+	+	0	0	+		0	D	0		0
2	R ₁ R ₁	+	0	+	0	2	0	+	+	0	0	+	0	+	+	0		3	0	0		3
3	R ₂ R ₂	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		0	0	0		0
4	r'r	0	+	0	+	5	0	0	+	0	0	0	+	+	0	+		0	0	0	-	0
5	r"r	+	0	+	0	2	0	0	+	0	+	0	+	0	+	0	Rg-	3	0	0		3
6	rr	+	+	0	+	2	0	+	0	0	0	+	0	+	+	0	Chido-	1	0	0		2
7	rr	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		D	0	0	-	0
8	rr	+	0	0	+	0	0	0	+	+	0	+	0	+	0	+		3	0	0		3
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+		0	0	0		0
10	rr	0	+	0	+	3	+	0	+	0	0	0	+	0	+	0		0	0	0		0
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Archivə					1 23			-	-			1	-									
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PS		lgG		IgA		lgM		C3d	. 1	C3	d	C	tl.	-								
Pe		igo	+	igA	-	igivi		U.S.			<u> </u>				ed into			Au	thorise	d by		
Reagen	•			1						1			1	Datat	ase sy.			1	1101130			
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Anti-A	Anti-B	Anti-D	ANTI D 2	A1 cells	B cells
D	5	5	5	5	3

Controls Arr	5	0	0	0
Brr	D	5	O	0
OR1r	0	0	S	5





Effective: 11/04/13

NHSBT Reagents	Panel 1
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Antibody Investigation Worksheet

Sample	Name		-			Reques	tor					Data	abase R	lef No.				Tested by					
Date of	Birth				2	Hosp n	0		3 - 3			Sam	ple No					Date Test	ed			5. gr.	_
Product Panel in	t Alsevers			Lot No. R144 3		Produc	t 1 CellSta	h		Lot No. R143 3		Produ	ict in Cell	Vedia		Lot N R163		Product Panel in L	ISP			No. 16 3312	_
	apainised i	in Alseve	ers	R154 3			apainise		llStab	R153 3				sed in Ce	ellMedia	R173		EXPIRY D		4.12.11	1.00		_
1	Rh	M	N	S	s	P1	Luª	к	k	Kp*	Leª	Le ^b	Fyª	Fy ^b	Jk*	Jkb	Other	IAT	EN2				
1	R1"R1	0	+	0	+	3	0	0	+	0	0	+	+	0	0	+	a. Sur	3	5				
2	R ₁ R ₁	+	0	+	0	2	0	+	+	0	0	+	0	+	+	0	A.	3	5				-
3	R ₂ R ₂	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		3	5				
4	r'r	0	+	0	+	5	0	0	+	0	0	0	+	+	0	+	1	3	5				
5	r"r	+	0	+	0	2	0	0	+	0	+	0	+	0	+	0	Rg-	3	5				
6	rr	+	+	0	+	2	0	+	0	0	0	+	0	+	+	0	Chido-	3	5				
7	rr	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+		3	5				
8	rr	+	0	0	+	0	0	0	+	+	0	+	0	+	0	+		3	5				
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+		3	5				
10	rr	0	+	0	+	3	+	0	+	0	0	0	+	0	+	0		3	5				
Auto																		0	0			-	-
													1							10.0			
		11 2								1	100								1		2		
-																	1						
18		1										1								14			
e				1				10															
Antibo	dy Titre		1.13					1					1.	Grou			2	Pheno				- ()	1
Dilution:	1.1.1							1				Cell	ld		ORN	D POS	S	Cc	+ E e	+ K-	SSI	iy (a-b-	.)
Anti-	e							-				1 4			lusion								
Archive	\$ 300 T		1	1.					-		100			PATIE	NTS:	554	EAR OLD	, FROM	BLAC	C AFR	ICAN !	BACKGR	QU
Anti	11 11		-					-	2				4										
Archive			1	1.1	1						14												
DAT B	atch No											-											
PS	3	lgG		IgA		lgM		C30	;	C3	d	C	tl		ed into ase by:			Au	horised	by			
Reagen	t			1	l				1	1		aluarite	1.							Í			-
Batch No's	-			-									1								. *		



Effective: 11/04/13

NHSBT Reagents Panel 1

Antibody Investigation Worksheet

Sample	Name					Reques	tor					Data	base R	ef No.				Tested by					
Date of	Birth	- 1 e				Hosp n	0					Sam	ple No.					Date Test	ed				
Produc Panel in	t Alsevers		-	Lot No. R144 33	12	Produc	t CellSta	h		Lot No. R143 3		Produ	ct in Cell	Vedia		Lot N	lo. 3312	Product Panel in L	ISP		Lot No. R146 3312		
	apainised i	n Alsever	s	R154 33			apainise		IIStab	R153 3				sed in Co	ellMedia	R173			ATE: 2014.		1140 3312		
8 J. 9 4	Rh	M	N	S	s	P1	Lu*	к	k	Kp*	Leª	Le ^b	Fy ^a	Fyb	Jk ^a	Jkb	Other	IAT	ENZ	1:1 INHIB	PBS 1:1		
1	R1 ^w R1	0	+	0	+	3	0	0	+	0	0	+	+	0	0	+	-	3	0	0	2		
2	R ₁ R ₁	+	0	+	0	2	0	+	+	0	0	+	0	+	+	0		2	0	0	2		
3	R ₂ R ₂	0	+	0	+	0	0	0	+	0	0	+	0	+	0	+		2	0	0	2		
4	r'r	0	+	0	+	5	0	0	+	0	0	0	+	+	0	+		3	0	0	3		
5	r"r	+	0	+	0	2	0	0	+	0	+	0	+	0	+	0	Rg-	2	0	0	2		
6	rr	+	+	0	+	2	0	+	0	0	0	+	0	+	+	0	Chido-	D	0	0	0		
7	rr	0	+	0	+	3	0	+	+	0	+	0	+	0	0	+	2	2	0	0	2		
8	rr	+	0	0	+	0	0	0	+	+	0	+	0	+	0	+		3	0	0	3		
9	rr	0	+	+	0	3	0	0	+	0	0	+	+	0	0	+		3	0	0	2		
10	rr	0	+	0	+	3	+	0	+	0	0	0	+	0	+	0		2	0	0	2		
Auto			-										1.1		-			0	0				
			- 18 -						1				1										
									-					1	13		÷						
- S.	1 A. 1																						
1			1												-	-	4 4						
												1.0											
Antibo	dy Titre													Group				Pheno					
Dilution:						1						Cell	ld		ARNC	neg	8	C	ir E et	K-K+			
Anti-								-						Conc	lusion				0		.0		
Archive			-							-			-	PATIE	NT6:	45	IR OLD FO	ENALE	POST OF	ERATI	JE		
Anti																							
Archive									-														
DAT B	atch No	τ. P					E Fr						-										
PS	5	lgG		lgA	-	lgM		C3c		C30	t	Ct	1	Entere				Authorised by					
Reagen										-				Datab	ase by.				nonseu p	y			





Any Questions?



