







Ο	ntics	4-2-2	Can	toTT
	plics	4-2-2	. Call	LOTT

Laser	Wavelength (nm)	Commonly Used Fluorochromes
Coherent® Sapphire™ Solid State	488 (blue)	FITC, PE, PerCP, PerCP-Cy <sup>™</sup> 5.5, PE-Cy <sup>™</sup> 7
JDS Uniphase HeNe Air-Cooled	633 (red)	АРС, АРС-Су7, АРС-Н7
Point Source <sup>™</sup> iFLEX 2000 <sup>™</sup> -P-1-405-0.65-30-NP	405 (violet)	Pacific Blue™, AmCyan, V450, V500

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Detector Array (Laser)	PMT Position	LP Mirror	BP Filter or LP Mirror	Intended Dye	Make sure your panel
Octagon	Α	735	780/60	PE-Cy7	design or fluorescent dye
(488-nm blue laser)	В	655	670	PerCP-Cy5.5 or PerCP	is match to detector
	С	610	Blank optical holder	_	*
	D	556	585/42	PE	*
	E	502	530/30	FITC	1
	F	Blank optical holder	488/10 and pinhole	SSC	*
	G	Blank optical holder	Blank optical holder	-	*
	Н	_	Blank optical holder	_	*
Trigon (633-nm red laser)	A	735	780/60	APC-Cy7 or APC-H7	*
	В	685	Blank optical holder	_	*
	С	-	660/20	APC	
Trigon (405-nm violet	А	502	510/50	AmCyan_or V500	
laser)	В	Blank optical holder	450/50	Pacific Blue™ or V450	
	С	_	Blank optical holder	-	
			•		🥂 R





























## Cytometer Setting>Compensation and Threshold setting

🛛 Inspector - Dot Plot	Plot Title Labels Acquisition Contour
Plot       Title       Labels       Acquisition       Dot Plot         X-Axis Scaling       Analysis Scaling of Time Parameters         Analysis Data Shown       1,000       Events         Image: 100       % Events	Resolution: 64 Scale Method: Probability V Percentage: 15 Color Appearance Multi-color © Population color Grayscale Contour Appearance V Smooth Contours V Smooth Contours Fill & Lines Fill & Lines © Contour Lines Only © Fill Color Only © Contour Lines and Fill Color















Tube: Tube 1 Population All Events P1 P2	#Events %Parent %Total 10,000 #### 100.0 3,612 36.1 36.1 342 9.5 3.4 Or	Population Hierarchy Inspector	Inspector - Population Hierarchy   Statistics View Fonk   Acquisition     Columns to Show   Wumber of Events   Percent of Parent   Population Hierarchy Elements   Population Hierarchy Outline	
--	---	--------------------------------------	---	--









ppropriate Controls								
What	Why							
Cytometer setup controls • BD CompBeads	Ensure consistent setup and compensation							
Gating controls • Isotype • FMO	Obtain reliable gates for problem markers							
<ul> <li>Biological controls</li> <li>Unstimulated samples</li> <li>Healthy donors</li> </ul>	Make appropriate biological comparisons and conclusions							

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Parameters         All         Min         Max         Geo M         Mean         Median         SD         rSD         %CV         %Mod           • FSC-A	leader Populations St	atistics										
	Parameters	All	Min	□ Max	Geo M	Mean	Median	D SD	rSD	0 %CV	wrCV	Mode
SSC-A     O     O     Sort by Parameter     O     Sort by Parameter     Sort by Formula      Display Range     Linear Scale (0-10,000)	FSC-A											
PFITC-A	SSC-A					~						
PE-A     PerCP-A     PerC	FITC-A											
PerCP-A	PE-A											
APC-A     Control Contro Control Control Control Control Control Control Control	PerCP-A											
Time	APC-A											
Decimal Places     0     0     0     0     0     0     0     0     0     1     1     0	r Time											
Sort by Parameter Scort by Formula      Display Range Linear Scale (0-10,000)	Decimal Places		0	0	0	0	0	0	0	1	1	0
				⊙ Sori □ Displa	t by Param Iy Range	eter 🔿 Linear Sca	Sort by For le (0-10,00	mula 0) 🗸				

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	dit Statistics V	iew							
He		Statistics							
	Show Population	Populations	All	Parent N	#Events	Parent		Total	
•		All Events							
-		P1							
		P2							
	<ul> <li>Image: A start of the start of</li></ul>	Rest of All Events							
		P4							
		Decimal Places				1	1	1	
	Save settings to p	rofile					ОК	Cancel	
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Header Populations	ew Statistics	5															
Parameters	All	Min	Max	Geo	Mean	Mediar	SD	rSD	CV	%rCV	Mode						
<ul> <li>FSC-A</li> </ul>												^					
• SSC-A					<ul> <li>Image: A set of the set of the</li></ul>												
• FITC-A																	
r PE-A												=					
<ul> <li>PerCP-A</li> </ul>																	
<ul> <li>APC-A</li> </ul>																	
<ul> <li>Time</li> </ul>																	
<ul> <li>Decimal Places</li> </ul>		0	0	0	0	0	0	0	1	1	0	~					
		~	Display	Range	Linear S	icale (0-1	0,000)	*									
Save settings to pro	file	V	) Display	Range	Linear S Linear S Channe Channe	icale (0-1 icale (0-1 I Scale (0 I Scale (0	10,000) 0,000) -255) -1,023)	<b>*</b>		OK	Car	ncel					
Save settings to pro Experiment Name: Bla Specimen Name: Spe Tube Name: Tub Record Date: Oct SOP: Adn OUID: e41 Display Range Cha	file nk Experi ecimen_C e_001 31, 2006 ninistrato a8ebe-9 annel Sca	iment w 001 9 3:31:33 9 ffc-487c ale (0-1,	] Display ith Samp 3 PM I-9fbd-44 023)	Range ole Tube 426cab4	Linear S Channe Channe 3dbd	icale (0-1 icale (0-1 l Scale (0 l Scale (0	0,000) 0,000) -255) -1,023) Whe statis displ value two s mea	n Dis stics ayed es sh statis n and	play view , delt ow th stics ( d P2 i	ок Rang has t ta val ne ab (for e mean	e is s two p ues a solut xam	sele pop are ce d ple,	ected ulatio displ iffere bety	l an ons laye ence wee	d th ed. 1 e be en th	e The c stwee ne P1	lelta en
Save settings to pro Experiment Name: Bial Specimen Name: Sput Record Date: Oct SOP: Adn OUD: e41 Display Range Cha Population	file nk Experi ecimen_C e_001 31, 2006 ninistrato a8ebe-9 annel Sca #Events	iment w 001 6 3:31:3: 7 ffc-487c ale (0-1,	] Display ith Samp 3 PM J-9fbd-44 023) %Pai	Range ole Tube 426cab4 rent	Linear S Channe Channe Channe	icale (0-1 icale (0-1 i Scale (0 i Scale (0-1))	0,000) 0,000) -255) -1,023) Whe stati: displ value two mean	n Dis stics ayed es sh statis n and	play view , delt ow th stics ( d P2 r	ок Rang has t ta val ne ab (for e mean	e is s two p ues a solut xam	sele sop are ce d ple,	ected ulatio displ iffere bety	l ang ons laye ence wee	d th ed. 1 e be en th	e The c etwee ne P1	lelta en
Save settings to pro Experiment Name: Bla Specimen Name: Spu Record Date: Oct \$OP: Adn OUD: e41 Display Range Cha Population P1 P2	file nk Experi ecimen_0 re_001 31, 2006 annel Sca #Events 5,035	iment w 001 6 3:31:3: 9 ffc-487c ale (0-1, 5	] Display ith Samp 3 PM 4-9fbd-44 023) %Pa	Range ole Tube 426cab4 rent 50	Linear S Linear S Channe Channe 3dbd	icale (0-1 icale (0-1 i Scale (0 i Scale (0-1) i	Whe statis two mea	n Dis stics ayed es sh statis n and	play view , delt ow th stics ( d P2 r	ок Rang has t ta val ne ab (for e mean	e is s two p ues a solut xamp )	sele pop are ce d ple,	ected ulatio displ iffere bety	l ang ons laye ence	d th ed. 1 e be en th	e The c etwee ne P1	delta en





Export Statistics	
Save in: Statistics Save Ny Recent Desktop Set of type: CSV files Cancel	Select one or more statistics views. File > Export > Statistics.
locate and select the file, and cl When prompted, click <b>Append.</b> Results will be appended to the	ick <b>Save.</b> selected file
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Auto-export Statistics											
Batch Analysis											
Output To Printer											
View Time: 10 🗸 🔽 Save as PDF 🖉 Freeze Biexponential Scales											
│ Manual ✓ Save as XML ✓ Use Preferred Global Worksheet											
Add Report											
PDF Filename: erlays-Batch_Analysis_13032012133610.pdf Browse View PDF											
XML Filename: erlays-Batch_Analysis_13032012133610.xml Browse											
Export Filename: erlays-Batch_Analysis_13032012133610.csv Browse											
Status: 0%											
Start Pause Continue Close											
Select item (experiment or specimen or tube)											
Right-click>Batch Analysis											
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	FCAP Array Parameters for BD CBA Kits	Reporter Parameter	Clustering Parameters	
	BD FACSVerse flow cytometer	PE	CBA Red	
	BD Accuri C6 flow cytometer	FL2	FL4	
	BD FACSArray™ bioanalyzer	Yellow	Red	
	BD FACSCanto™ II flow cytometer	PE	APC	
	BD LSRFortessa™ flow cytometer	PE	APC	
	BD FACSAria™ III cell sorter	PE	APC	
	BD FACSCalibur™ flow cytometer (single laser)	FL2	FL3	
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actiovation sar	npie						
System	IL-2	IL-3	IL-4	IL-5	IL-6	IL-8	IL-10
BD FACSArray	137,264	57,731	88	350	1,149	49,045	1,589
BD FACSCanto	124,467	53,513	121	338	1,149	45,992	1,444
BD LSR II	129,311	53,992	87	355	1,085	46,651	1,565
BD FACSCalibur	143,708	62,134	87	345	1,122	48,222	1,328
Average	133,687	56,842	96	347	1,126	47,478	1,481
Standard Deviation	8,512	4,000	17	7	30	1,402	120
% CV	6.4%	7.0%	17.6%	2.1%	2.7%	3.0%	8.1%
System	IL-13	TNF	IFN-y	IP-10	RANTES	MIP-1a	MIP-18
BD FACSArray	3,973	30,785	55,797	158	6,365	51,217	264,846
BD FACSCanto	3,452	29,138	53,342	191	6,379	49,121	253,883
BD LSR II	3,607	28,750	52,488	200	6,168	47,642	261,450
BD FACSCalibur	3,122	30,237	61,637	178	7,111	47,567	287,118
Average	3 5 3 0	20 729	EE 916	192	6 506	40 997	266 924
Average Standard Doviation	3,535	29,120	4 4 26	102	0,000	40,007	14 204
Standard Deviation	353	345	4,120	10	415	1,711	14,204

Cat. No.	Decription	Contet	Size
561418	Human Anaphylatoxin Kit	C4a, C3a, C5a	80 tests
552990	Human Chemokine Kit	IL-8, RANTES, MIG, MCP-1, IP-10	80 tests
551811	Human Inflammation Kit	IL-8, IL-1 β, IL-6, IL-10, TNF, IL-12p70	80 tests
550749	Human Th1/Th2 Cytokine Kit	IL-2, IL-4, IL-5, IL-10, TNF, IFN- γ	80 tests
551809	Human Th1/Th2 Cytokine Kit II	IL-2, IL-4, IL-6, IL-10, TNF, IFN-γ	80 tests
560484	Human Th1/Th2/Th17 Kit	IL-2, IL-4, IL-6, IL-10, TNF, IFN-γ, IL-17A	80 tests
643939	BCR-ABL Protein Kit	BCR-ABL fusion proteins	50 tests
on-Hum	nan Primate CBA Kit		Size
<b>on-Hum</b> Cat. No. 557800	Decription Non-human Primate Th1/Th2 Cytokine Kit	Contet IL-2, IL-4, IL-5, IL-6,TNF, IFN-γ	Size 80 tests
on-Hum Cat. No. 557800 Iouse C Cat. No. 550026	An Primate CBA Kit Decription Non-human Primate Th1/Th2 Cytokine Kit BA Kit Decription Mouse Immunoglobulin Isotyping Kit	Contet IL-2, IL-4, IL-5, IL-6,TNF, IFN- γ Contet mouse IgG1, IgG2a, IgG2b, IgG3, IgA, IgM, IgE	Size 80 tests Size 100 tests
on-Hum Dat. No. 557800 Iouse C Cat. No. 550026 55026	Decription Non-human Primate Th1/Th2 Cytokine Kit BA Kit Decription Mouse Inflammation Kit	Contet IL-2, IL-4, IL-5, IL-6, TNF, IFN- γ Contet mouse IgG1, IgG2a, IgG2b, IgG3, IgA, IgM, IgE IL-6, IL-10, MCP-1, IFN-γ, TNF, IL-12p70	Size           80 tests           5ize           100 tests           80 tests
on-Hum Dat. No. 557800 Douse C Cat. No. 550026 552364 551287	An Primate CBA Kit  Decription Non-human Primate Th1/Th2 Cytokine Kit  BA Kit  Decription Mouse Immunoglobulin Isotyping Kit Mouse Inflammation Kit Mouse Th1/Th2 Cytokine Kit	Contet IL-2, IL-4, IL-5, IL-6, TNF, IFN- γ Contet mouse IgG1, IgG2a, IgG2b, IgG3, IgA, IgM, IgE IL-6, IL-10, MCP-1, IFN- γ, TNF, IL-12p70 IL-2, IL-4, IL-5, IFN- γ, TNF	Size         80 tests           80 tests         100 tests           80 tests         80 tests









		7-11-1-14				
	Flex Set	建議	洛阳組合	: Human		
	Human Cytokine P	Panel		Human	Th2 Cytokine Panel	
	Description	Cat. No	. Bead Location	Descript	tion Cat. No.	Bead Location
	IFN-V	558269	E7	IL-2	558270	A4
	IL-1a	560153	D6	IL-4	558272	A5
	IL-1B	558279	) В4	IL-5	558278	AG
	IL-2	558270	) A4	IL-6	558276	A7
	IL-4	558272	A5	IL-9	558333	BG
	IL-5	558278	A6	IL-10	558274	B7
	11-6	558276	5 A7	IL-13	558450	EG
	IL-7	558334	A8	TNFα	558273	D9
	IL-9	558333	B6			
	IL-10	558274	Ь B7	1.1	Th 17 Contability - David	
	IL-11	560228	D5	Basala	THI/ Cytokine Pane	Band I section
	IL-12p70	558283	E5	Description	tion Cat. No.	Bead Location
	IL-13	55845C	) E6	GIVI-CSF	556555	C9
	IL-17A	560383	B5	11-12-2	558269	E/
	IL-17F	562151	C6	IL-IP	558279	B4
	IL-21	560358	BB	IL-2	558270	A4
	TNFa	558273	D9	IL-4	558272	A5
	TNFB	560083	D5	IL-S	558278	A6
				11-6	558276	A/
	Human Chemokine	Papel		11-9	556555	BO
	Description	Cat No	Bead Location	11-10	558274	B/
	Ectavin (CCL11)	558329	C7	IL-12D/0	J 560228	03
	Eractalkine (CX3CL1	560265	ČÉ	11-13	558450	55
	IL-8 (CXCL8)	558277	A9	1L-17A	56 21 51	66
	IP-10 (CXCL10)	558280	85	11-21	560259	20
	I-TAC (CXCL11)	560364	A7	TNEG	558272	D9
	MCP-1 (CCL2)	558287	D8	TNEB	560083	DS
	MIG (CXCL9)	558286	E8	sCD154 (9	CD40 560305	C 7
	MIP-1a(CCL3)	558325	В9		1 200200	
	MIP-1B (CCL4)	558288	E4	Human Tr	Cytokine Banel	
	RANTES (CCL5)	558324	D4	Descriptio	Cat No	Bead Location
				CD178 (Ea	558330	C6
	Human Th1/Th2 Cy	tokine Pa	nel	GM-CSE	558335	69
	Description	Cat. No.	Bead Location	Granzyme	A 560299	D9
	GM-CSF	558335	Cg	Granzyme	B 560304	D7
	IFIN-Q	558269	E/	IEN-V	558269	E7
	IL-2	556270	A4 AE	IL-2	558270	A4
	IL	336272 EE9379	A3	IL-4	558272	A 5
	IL-5	556276	AB	IL-5	558278	AG
	11-10	558270	67	IL-6	558276	A7
	11-12070	558283	E5	IL-10	558274	B7
	11-13	558450	EG	IL-13	558450	EG
	TNEG	558273	D9	MIP-1a(C	CL3) 558325	B9
		556215	2.5	MIP-1B (C	CL4) 558288	E4
				TNFα	560112	C4
	Human Th1 Cytokin	ne Panel				
	Description	Cat. No.	Bead Location	Human S	oluble Cytokine Rec	eptor Panel
	IFIN-Y	558269	E7	Description	on Cat. No.	Bead Location
	IL-1B	558279	84	CD121a (I	L-1RI) 560276	B6
	11-2	558270	A4	CD121b (	IL-1KII) 560281	B7
	11-0	558276	A/	soluble II	NERI 560156	C4
BD.	11 12070	556274	DE	soluble T	VERII 560155	65
	TNEG	558273	D9			
		3302/3	L/3			

Aouse Cytokine	Panel		Mouse Th1	7 Cytokine Pane	1
Description	Cat. No.	Bead Location	Description	Cat. No.	Bead Location
FN-y	558296	A4	GM-CSF	558347	B9
L-1a	560157	E4	IFN-V	558296	A4
-16	560232	E5	11-10	560157	F4
	558297	A5	IL-1B	560232	ES
- 3	558346	AB	11 - 2	558297	A5
-4	558298	A7	II -4	558298	A7
- 5	558302	A6	11 - 5	558302	45
-6	558301	B4	11-6	558301	84
1-9	558348	BS	11 -9	558348	BS
-10	558300	C4	11-10	558300	64
-12070	558303	DZ	11-13	558349	BB
-12	556505	22	11-170	560393	66
	556349	DO CE	11 176	560283	0.5
	560285	65	11-175	562174	DB
L- 17F	562174	De	11-21	10 560160	607
	560160	60	IL-23 P19/P	40 562575	D7
NFA	558299	6	ΠNFα	558299	6
Aouse Chemoki	ine Panel		Mouse Tc C	vtokine Panel	
Description	Cat. No.	Bead Location	Description	Cat. No.	Bead Location
C	558340	A9	GM-CSF	558347	B9
ИСР-1 (CCL2)	558342	B7	IFN-V	558296	A4
ЛIG (CXCL9)	558341	D9	IL-2	558297	A5
AIP-1α(CCL3)	558449	C7	IL-4	558298	A7
AIP-1β (CCL3)	558343	C9	IL-5	558302	AG
ANTES (CCL5)	558345	D8	IL-6	558301	B4
			IL-10	558300	C4
Nouse Th1/Th2	Cytokine P	Pead Lesstion	IL-13	558349	88
rescription	EE 83.47	Beau Location	MIP-18/CC	12) 556445	Čá
ENLA	55,8206	04	RANITES (C	(15) 558345	DS
2	558250	A.F.	TNEG	558200	6
-4	558208	22		556255	
	550200	26			
-6	55 8301	84			
10	558301	64			
12-70	556500	64			
L-12D/0	556303	22			
NEG	556549	60			
NFO	338299	6			
Aouse Th1 Cyto	kine Panel				
Description	Cat. No.	Bead Location			
-N-γ	558296	A4			
L-1B	560232	ES			
L= 2	558297	A5			
L-6	558301	B4			
L-10	558300	⊂4			
L-12p70	558303	D7			
'NFα	558299	C8			
Aquise Th2 Cuto	kine Parel				
Description	Cat. No.	Bead Location			
1-2	558297	A5			
-4	558298	A7			
- 5	558302	AG			
-6	558301	84			
- 9	558348	85			
	556346	64			
-10					
10	558300	04			























Bead Position	4	5	6	7	8	9
А	IL-2	IL-4	IL-5	IL-6	IL-7	IL-8
В	IL-1β	IP-10	IL-9	IL-10	VEGF	MIP-1α
С	Angiogenin	basic FGF	FasL	Eotaxin	G-CSF	GM-CSF
D	RANTES	IL-3	OSM	LT-α	MCP-1	TNF
Е	MIP-1β	IL-12p70	IL-13	IFN-γ	MIG	IgE

















	ELISA	v.s. CBA	
Comparison			
ELISA	方法	BD CBA Flex Set	BD CBA Kit
1個樣本1種	同時測定蛋白種類數目	1 個樣本最多可 30 種	1 個樣本最多可 6 種
化學發光、吸光值;螢光	檢測原理	螢光	螢光
繁雜,需清洗 10 次以上。	實驗操作	簡便,只需清洗·	一次。
100 μ I 以上	需要樣本量	<b>25-5</b> 0 μ Ι	
用 96-well plate	測定方式 🦉	可用 96-well plate 或	Tube 來進行
Plate Redaer	測定儀器	2-Laser Flow Cytometry	1-Laser Flow Cytometry
Correlation • E. Mc 266 • BLOC • Electri • Methic • Cytor • Cytor	organ et al. / Clini DD, 15 AUGUST 20 rophoresis 2009, ods, <u>Volume 38, i</u> metry Part B (Clin kine, <u>Volume 54, i</u>	cal Immunology 110 (20 005 VOLUME 106, NUM 30, 4008–4019 I <mark>ssue 4</mark> , April 2006, Pag ical Cytometry) 61B:35 Issue 2, May 2011, Page	004) 252– BER 4 es 317–323 –39 (2004) es 136–143
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Tool/Technology	BD Cytometric Bead Array (CBA)	ELISA	ELISPOT
Molecules detected	Secreted or intracellular	Secreted	Secreted (in situ)
Multiparameter	Yes	No	No
Single-cell/cell-subset information	No	No	Frequencies, no subset information
Antigen-specific	Yes	Yes	Yes
Post-assay viability	Yes	Yes	No
Protein quantitation	Yes	Yes	No
Instrumentation	Flow cytometer	Spectro- photometer	ELISPOT reader



Measure	Bio- Rad	Invitrogen	BD	Bender Med Systems
Cost (1 = highest cost)	2	1	3	4
Time taken for assay completion	2 h 10 min	5 h	4 h	4 h
Time taken for reading samples	30 min	30 min	2 1/2 h	2 1/2 h
Mean correlation (duplicate wells)	0.95	0.82	0.95	0.96
Number of cytokines tested	17	10	11	7
Volume of sample needed	100 µl	100 µl	50 µl	25 µl















	Specify reagents labels, keywords, and acquisition	Labels	iswards   Acquisition							Labels			
	criteria as needed.	Labe	C03 M							Name Ustby user			
			L Experiment A	Label	Label	Label	Labol	Label	Label	UserNenes L 10 - 20 Torrined			
			- K Compensation Controls							-			
			- Ga Unstained Control	FITC	FE	Parch-cy5-5	PE-Cy7	APC	NPC-CY2	11			
			- III FITC Stained Control	FITC	PE	PerOP-Cy6-5	PE-Cy7	APC	APC-Cy7	1			
			- Ja PE Stated Control	FITC	PE	PerOP-Cy6-5	PE-CY7	APC	&PC-CY7				
			- Ji PerCP-Cy5-5 Stained Control	FITC	re	PerON-CyS-S	PE-Cy7	APC	APC-Cy7				
			ja PE-Cy7 Stained Control	FITC	PE .	Parch-Cy5-5	PE-Cy7	APC	APC-CY7				
			- iji APC Stained Control	FITC	PE	PerOP-Cy5-5	PE-097	APC	APC-CY?				
			- iji APC-Cy7 Stamed Control	FITC	PE	PerON-Cy6-5	PE-Cy7	APC	APC-Cy7				
			- Keader sample										
					-	- 🖟 Tube_001	нтс 103	PE	ParOP-Cy5-5	PE-Cy?	APC	APC-CY7	
			- ij Tubs_002	P1TC	PE	PerOP-Cy5-5	PE-Cy7	APC	APC-CY7	Add to List Delete from List			
		•	- 🗊 Tube_003	FITC	PE	PerOP-Cy6-5	PE-Cy7	APC	APC-Cy7	Assign of Hemorya			
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