Fluorophore selection guide

BD FACSymphony A5 and BD FACSymphony A5 SE

BD FACSymphony™ A5 and BD FACSymphony A5 SE Laser Channel Channel start-end Recommended Invitrogen™ dye for antibody conjugates Abs/Em (nm) Relative					
Laser	Channel	Channel start-end (nm)	Recommended Invitrogen™ dye for antibody conjugates	Abs/Em (nm)	Relative brightness
	UV1	365–393	Brilliant Ultra Violet™ 395 Dye	347/399	Low
Ultraviolet 355 nm	UV2	430–470			
	UV3	500-530	Brilliant Ultra Violet™ 496 Dye	348/493	Medium
	UV4	570-590	Brilliant Ultra Violet™ 563 Dye	349/563	Medium
	UV5	600–620	Brilliant Ultra Violet™ 615 Dye	350/607	High
	UV6	660–680	Brilliant Ultra Violet™ 661 Dye	349/659	High
	UV7 UV8	720–750	Brilliant Ultra Violet™ 737 Dye	350/740 349/804	High
	UVO	790–830	Brilliant Ultra Violet™ 805 Dye Brilliant Violet™ 421 Dye	406/423	Medium
	V1	417–445	eBioscience™ Super Bright™ 436	413/431	High
			Dye eBioscience™ eFluor™ 450 Dye	405/445	High Low
			Brilliant Violet™ 480 Dye	437/478	Medium
	V2	500–550	eBioscience™ eFluor™ 506 Dye	419/508	Low
			Pacific Orange™ Dye	400/551	Low
	V3	578-592	l using orange by	100/001	LOW
			eBioscience™ Super Bright™ 600 Dye	414/601	Low
Violet 405	V4	585–625	Brilliant Violet™ 605 Dye	407/605	Medium
nm	V5 V6	667–687	eBioscience™ Super Bright™ 645 Dye	414/645	Low
11111			Brilliant Violet™ 650 Dye	407/646	High
			eBioscience™ NovaFluor™ Violet 690 Dye	408/691	High
		685–735	eBioscience™ Super Bright™ 702 Dye	413/702	Medium
			Brilliant Violet™ 711 Dye	406/711	Low
	V7	735–765	eBioscience™ NovaFluor™ Violet 745 Dye	391/743	Low
			eBioscience™ Super Bright™ 780 Dye	413/780	High
	V8	790–830	Brilliant Violet™ 786 Dye	406/788	High
			eBioscience™ NovaFluor™ Violet 800 Dye	408/800	Low
		515–545	eBioscience™ NovaFluor™ Blue 510 Dye	496/511	Medium
			Alexa Fluor™ 488 Dye	490/525	Medium
	B1		Alexa Fluor™ 532 Dye	534/553	Low
			eBioscience™ NovaFluor™ Blue 530 Dye	508/527	Low
			eBioscience™ NovaFluor™ Blue 555 Dye	493/555	Low
			Fluorescein (FITC) eBioscience™ NovaFluor™ Blue 585 Dye	498/517 493/586	Medium
	B2	600 620	eBioscience™ NovaFluor™ Blue 505 Dye eBioscience™ NovaFluor™ Blue 610-30S Dye	508/615	Low
	D2	600–620	eBioscience™ NovaFluor™ Blue 610-305 Dye	492/616	Low
Blue 488 nm	В3	655–685 685–735	eBioscience™ NovaFluor™ Blue 660-40S Dye	508/664	Medium Low
			eBioscience™ NovaFluor™ Blue 660-120S Dye	492/665	Medium
			PerCP-Cyanine5.5 Dye	489/679	Low
			PerCP	482/675	Low
	B4		eBioscience™ NovaFluor™ Blue 690 Dye	494/690	Low
			PerCP-eFluor™ 710 Dye	482/708	High
	B5	735–765	eBioscience™ NovaFluor™ Blue 725 Dye	493/726	Medium
			eBioscience™ NovaFluor™ Blue 760 Dye	490/764	Medium
	B6	790-850	eBioscience™ NovaFluor™ Blue 800 Dye	493/806	High
			eBioscience™ NovaFluor™ Yellow 570 Dye	551/566	Medium
Yellow- green 561 nm	YG1	579–593	R-phycoerythrin (R-PE)	565/576	High
			eBioscience™ NovaFluor™ Yellow 590 Dye	556/569	High
	YG2	600-620	Alexa Fluor™ 561 Dye	563/594	Medium
			eBioscience™ NovaFluor™ Yellow 610 Dye	551/614	High
	YG3	655–685	eBioscience™ PE-eFluor™ 610 Dye	565/606	High
			eBioscience™ NovaFluor™ Yellow 660 Dye	550/664	High
			eBioscience™ PE-Cyanine5 Dye	565/680	High
	YG4	685–735	eBioscience™ NovaFluor™ Yellow 690 Dye	551/691	High
			eBioscience™ PE-Cyanine5.5 Dye eBioscience™ NovaFluor-Yellow 700 Dye	565/680 551/701	High High
			eBioscience™ NovaFluor™ Yellow 700 Dye eBioscience™ NovaFluor™ Yellow 730 Dye	551/701	High Medium
			PE-Alexa Fluor™ 700 Dye	565/719	High
	YG5	750–810	eBioscience™ NovaFluor™ Yellow 755 Dye	552/755	Medium
			PE-Cyanine7 Dye	569/780	Medium
			eBioscience™ NovaFluor™ Yellow 810 Dye	551/813	High
Red 640 nm	R1	655–685	Allophycocyanin (APC)	651/660	High
			eBioscience™ NovaFluor™ Red 660 Dye	637/658	High
			eBioscience™ eFluor™ 660 Dye	651/668	High
			Alexa Fluor™ 647 Dye	650/671	Medium
	R2	708–752	eBioscience™ NovaFluor™ Red 685 Dye	637/685	High
			Alexa Fluor™ 660 Dye	663/691	Medium
			eBioscience™ NovaFluor™ Red 700 Dye	637/701	High
			eBioscience™ NovaFluor™ Red 710 Dye	637/713	High
			Alexa Fluor™ 700 Dye	696/719	Medium
			eBioscience™ NovaFluor™ Red 725 Dye	636/725	High
	R3	750–810	eBioscience™ NovaFluor™ Red 755 Dye	636/755	High
			eBioscience™ APC-eFluor™ 780 Dye	651/785	High

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BD FACSymphony A5 and BD FACSymphony A5 SE

Reagent selection guide

BD FACSymphony A5 and BD FACSymphony A5 SE

Lasor	Symphol		
UV1 368-393			
Ultraviolet		Abs/Em (nm)	Reagent category
User		355/410	Proliferation tracking
Use		369/437	DNA stain
UV3	ometry Assay Kit	343/441 343/441	Apoptosis tracking DNA stain
DAPI (4.6-diamindine-2-phenyindole)	ometry Assay Kit	350/450	Fixable viability stain
U/3		358/461	DNA stain
V1		358/461	DNA stain
Violet 405 nm		361/497	DNA stain
Violet 405 nm			A
Violet 405 nm	ate	405/445	Apoptosis tracking Fixable viability stain
Violet 405 nm		405/450	Proliferation tracking
PO-PRO™-I floride Nucleic Acid Stain		404/455	Apoptosis tracking
V2 S00-550 Viole Rationetric Membrane Asymmetry Probe/De V2 S00-550 Viole Rationetric Membrane Asymmetry Probe/De Viole Rationetric Rat		435/455	DNA stain
V2 500-550	try Assay Kit	404/455	DNA stain
V2 500-550 Violet Ratiometric Membrane Asymmetry Probe/De IVE/DEADI™ Fixable Agus Dead Cell Stain V3 578-592 IVE/DEADI™ Fixable Vellow Dead Cell Stain V4-V8 585-830 IVE/DEADI™ Fixable Vellow Dead Cell Stain V4-V8 S85-830 CellEvent™ Senescence Green Flow Cytometry At MitoTracker™ Green Flow Dytometry At MitoTracker™ Green Flow Spring Solution Annexin V-Alexa Floro™ 488 Flow Oytom Annexin V-Alexa Floro™ 488 Flow Cytom CellCADI™ Flow Flow Flow Flow Flow Flow Flow Flow		444/480	DNA stain
V3 578–592 UYE/DEAD™ Exable Aqual Dead Cell Stain		405/506	Fixable viability stain Apoptosis tracking
V3	Dead Cell Apoptosis dye	425/530, 585	stain
V4-V8 585-630 CellEvent™ Senescence Green Flow Cytometry As MitoTracker™ Green FM Dve, for flow cytometry As Flown Cytometry Financial Cytometry As Flow Cytometry As Flow Cytometry As Flow Cytometry Cyto		375/526	Fixable viability stain
Blue 488 nm Bit state of the		400/575	Fixable viability stain
Blue 488 nm Blue	A 16"	400/511	Mitaabaaalaia
Blue 488 nm		488/514	Mitochondria stain
Page		488/516	Mitochondria stain Proliferation tracking
## Blue 488 nm Blue 788 nm B		495/519	stain
Blue 488 nm B1 515-545 B1 5		484/501	Lipophilic Tracer
Blue 488 nm Blue 589 nm Blue		499/520	Apoptosis tracking
Blue 488 nm Blue 488 nm Cilck-IT™ Plus EdU Alexa Fluor™ 488 Flow Cytom CellROX™ Green Reagent MitoProbe™ JC-1 Assay Kit pHrodo™ Green Male pHrodo™ Green Maleimide E. coli BioParticles Coliperative CellEvent™ Caspase-3/7 Green Detection Reagen LIVE/DEAD™ Fixable Olive Viability Stain Vybrant™ DyeCycle™ Green Stain B2-B3 685-735 eBioscience™ Annexin V-PerCP-eFluor™ 710 Col B5-B6 735-830 CellROX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Orange Nucleic Acid Stain Tetramethyrhodamine, Ethyl Ester, Perchlorate (Th Tetramethyrhodamine, Methyl Ester, Perchlorate (Th Annexin V-PE Conjugate CellTrace™ Wellow Cell Proliferation Kit pHrodo™ Red Maleimide E. coli BioParticles Conju LIVE/DEAD™ Fixable Grange (602) Viability Kit Annexin V-Alexa Fluor™ 588 Conjugate LIVE/DEAD™ Fixable Grange (602) Viability Kit Annexin V-Alexa Fluor™ 588 Conjugate LIVE/DEAD™ Fixable Grange (602) Viability Kit Annexin V-Alexa Fluor™ 594 Flow Cytom Propidum Indide YG3 655-686 7-AAD (7-Aminoactinomycin D) YG4 685-735 YG5 750-810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate Cilck-IT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidum Indide YG3 655-686 7-AAD (7-Aminoactinomycin D) PYG0 Flow The Alexa Fluor™ 594 Flow Cytom Propidum Order Annexin V-PE-Cyanine7 Conjugate Cilck-IT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidum Flar Annexin V-PE-Cyanine7 Conjugate SYTOX™ Red Dead Cell Stain MitoProbe™ Dict(15) Assay Kit FXCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Stain Annexin V-APE Chilophycocyanin TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-APE Callophycocyanin Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-APE Read Stain Annexin V-APE Cell Depter Med 7 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		495/520	Fixable viability stain
Blue 488 nm CellROX™ Green Reagent	™ 488 Anti-BrdU	499/520	DNA stain, apoptosis
Blue 488 nm CellROX™ Green Reagent			tracking stain
MiloProbe™ JC-1 Assay Kit pHrodo™ Green Male pHrodo™ Green Maleimide E. coll BioParticles Col pHrodo™ Green Maleimide S. aureus BioParticles CellEvent™ Caspase-3/7 Green Detection Reagen LIVE/DEAD™ Fixable Olive Viability Stain Vybrant™ DyeCycle™ Green Stain CellROX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate CellTrace™ Yellow Cell Proliferation Kit pHrodo™ Red Maleimide E. coll BioParticles Conjulte/EpcAD™ Fixable Orange (602) Viability Kit Annexin V-Alexa Fluor™ 568 Conjugate LIVE/DEAD™ Fixable Red Dead Cell Stain FKCycle™ PIrRNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Cilck-iT™ Plus EdU Alexa Fluor™ 594 Conjugate Cilck-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655-685 T-AAD (T-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain Annexin V-Alexa Fluor™ 594 Conjugate Cilck-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom SYTOX™ ADvanced™ Dead Cell Stain MiloProbe™ Deen Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellRox™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Cilck-iT™ Plus EdU Alexa F	ometry Assay Kit	499/520	DNA stain
PHrodo™ Green Maleimide <i>E. coli</i> BioParticles Con PHrodo™ Green Maleimide <i>S. aureus</i> BioParticles CellEvent™ Caspase-3/7 Green Detection Reagen LiVE/DEAD™ Fixable Olive Viability Stain Wybrant™ DyeCycle™ Orange Stain B2-B3 600-685 B4 685-735 B5-B6 735-830 CellROX™ Orange Flow Cytometry Stain Annexin V-PerCP-eFluor™ 710 Co Stain Percent Manexin V-PerCP-eFluor™ 710 Co CellROX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Orange Nucleic Acid Stain Tetramethylrhodamine, Ethyl Ester, Perchlorate (The Tetramethylrhodamine, Methyl Ester, Perchlorate (The		485/520	Oxidation tracking stain
PHrodo™ Green Maleimide <i>E. coli</i> BioParticles Con pHrodo™ Green Maleimide <i>S. aureus</i> BioParticles Cellevent™ Caspase-3/7 Green Detection Reagen LiVE/DEAD™ Fixable Olive Viability Stain Vybrant™ DyeCycle™ Orange Stain B2—83 600-685 B4 685-735 B5—86 735-830 CellROX™ Orange Flow Cytometry Stain Annexin V-PerCP-eFluor™ 710 Co Standard College Coll	aleimide	514/529, 590	Mitochondria stain
CellEvent™ Caspase-3/7 Green Detection Reagen LIVE/DEAD™ Fixable Olive Viability Stain Vybrant™ DyeCycle™ Green Stain GellCX™ Grange Flow Cytometry Stain GellCX™ Grange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Grange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Grange Flow Green GellTrace™ Grange Flow Green GellTrace™ Grange Flow Green GellTrace™ Grange Flow Green GellTrace™ Grange Green GellTrace™ GellTrace™ Grange Green GellTrace™ GellTrace™ Grange Green GellTrace™ GellTrace™ Grange Green GellTrace™		509/533	Endocytosis tracking
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Wybrant™ DyeCycle™ Orange Stain	jent	502/530	Apoptosis tracking
Sez_B3 600-685 B4 685-735 eBioscience™ Annexin V-PerCP-eFluor™ 710 Cot B5-B6 735-830 CellROX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Orange Nucleic Acid Stain Tetramethylrhodamine, Ethyl Ester, Perchlorate (The Tetramethylrhodamine, Ethyl Ester, Perchlorate (The Tetramethylrhodamine, Methyl Ester, Perchlorate (The Tetramethylrhodamine, Methylrhodamine, Methyl Ester, Perchlorate (The Tetramethylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methylrhodamine, Methyl Ester, Perchlorate (The Methylrhodamine, Methyle		480/557	Fixable viability stain
B2_B3		519/563 506/534	DNA stain DNA stain
B4 685–735 eBioscience™ Annexin V-PerCP-eFluor™ 710 Co B5-B6 735–830 CeliROX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Orange Nucleic Acid Stain Tetramethylrhodamine, Ethyl Ester, Perchlorate (Th Tetramethylrhodamine, Estyl Este		300/334	DIA Stalli
Yellow- green 561 nm Yellow- green 562 600-620 Yellow- green 763 655-685 YG3 655-685 YG4 685-735 YG5 750-810 Red 6440 nm R1 655-685 CellROX™ Orange Flow Cytometry Stain Annexin V-Alexa Fluor™ 555 Conjugate SYTOX™ Orange Nucleic Acid Stain Tetramethylrhodamine, Ethyl Ester, Perchlorate (The Treatmethylrhodamine, Methyl Ester, Perchlorate (The Treatmethylrhodamine, Ethyl Ester, Perchlorate (The Treatmethylrhodamine, Methyl Ester, Perchlorate (The	Conjugate	482/708	Apoptosis tracking
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Annexin V-PE Conjugate CellTrace™ Yellow Cell Proliferation Kit pHrodo™ Red Maleimide E. coll BioParticles Conju LIVE/DEAD™ Fixable Orange (602) Viability Kit Annexin V-Alexa Fluor™ 568 Conjugate LIVE/DEAD™ Fixable Red Dead Cell Stain FXCycle™ PlrNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655-685 7-AAD (7-Aminoactinomycin D) SYTOX™ AAD Vanced™ Dead Cell Stain YG4 685-735 YG5 750-810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		549/574	Mitochondria stain
PHrodo™ Red Maleimide E. coli BioParticles Conju Yellow- green 561 nm YG2 600-620 ELIVE/DEAD™ Fixable Orange (602) Viability Kit Annexin V-Alexa Fluor™ 568 Conjugate LIVE/DEAD™ Fixable Red Dead Cell Stain FxCycle™ Pl/RNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium lodide YG3 655-685 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685-735 YG5 750-810 Red Gelioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™	/	565/576	Apoptosis tracking
Yellow- green LIVE/DEAD™ Fixable Orange (602) Viability Kit Annexin V-Alexa Fluor™ 568 Conjugate LIVE/DEAD™ Fixable Red Dead Cell Stain YG2 600–620 Excycle™ PI/RNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Cick-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655–685 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685–735 YG5 750–810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate Phrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Cick-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Wybrant™ DyeCycle-Ruby Stain DRAQ5™		546/579	Proliferation tracking
Annexin V-Alexa Fluor™ 568 Conjugate LIVE/DEAD™ Fixable Red Dead Cell Stain FxCycle™ Pl/RNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655-685 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685-735 YG5 750-810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cytom MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		560/585	Endocytosis tracking
Fixable Red Dead Cell Stain YG2 600–620 ELIVE/DEAD™ Fixable Red Dead Cell Stain FxCycle™ PI/RNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655–685 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685–735 YG5 750–810 Bioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		580/602 579/603	Fixable viability stain
PG2 600–620 FxCycle™ Pl/RNase Staining Solution Annexin V-Alexa Fluor™ 594 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655–685 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685–735 YG5 750–810 Bioscience™ Annexin V-PE-Cyanine7 Conjugate PHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		595/615	Apoptosis tracking Fixable viability stain
Annexin V-Alexa Fluor™ 594 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 594 Flow Cytom Propidium Iodide YG3 655-685 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685-735 YG5 750-810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		535/617	DNA stain
Propidium Iodide 7-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain YG4 685-735 YG5 750-810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		590/618	Apoptosis tracking
PG3 655-685 T-AAD (7-Aminoactinomycin D) SYTOX™ AADvanced™ Dead Cell Stain PG4 FG5 750-810 Bioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™	ometry Assay Kit	590/618	DNA stain
PG3 655-685 SYTOX™ AADvanced™ Dead Cell Stain YG4 685-735 YG5 750-810 eBioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		535/617	DNA stain
PG4 PG5 PG5 PG6 PG685 P		546/647 535/647	Viability stain DNA stain
PG5 750-810 Bioscience™ Annexin V-PE-Cyanine7 Conjugate pHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle¬Ruby Stain DRAQ5™		300.041	210 Cotton
PHrodo™ Deep Red Mammalian and Bacterial Cell SYTOX™ Red Dead Cell Stain MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle¬Ruby Stain DRAQ5™	ate	569/780	Apoptosis tracking
R1 R1 655–685 MitoProbe™ DilC1(5) Assay Kit FxCycle™ Far Red Stain Annexin V-APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cytom MitoTracker™ Deep Red FM Vybrant™ DyeCycle¬Ruby Stain DRAQ5™		640/655	Endocytosis tracking
R1 655–685 R1 FxCycle™ Far Red Stain Annexin V–APC (Allophycocyanin) TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V–Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle¬Ruby Stain DRAQ5™		640/658	DNA stain
R1 655–685 R1 655–685 R1 R1 R1 R1 R1 R2 R1 R2 R2 R2		638/658	Mitochondria stain
R1 655–685 R1 655–685 R1 655–685 TO-PRO™-3 Ready Flow-Reagent CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V–Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		633/660 651/660	DNA stain Apoptosis tracking
R1 655–685 CellTrace™ Far Red Cell Proliferation Kit LIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V–Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cytom MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		642/661	DNA stain
R1 655–685 ELIVE/DEAD™ Fixable Far Red Dead Cell Stain Kit CellROX™ Deep Red Reagent Annexin V-Alexa Fluor 647 Conjugate Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		630/661	Proliferation tracking
Red 640 nm Annexin V—Alexa Fluor 647 Conjugate	Kit	650/665	Fixable viability stain
Click-iT™ Plus EdU Alexa Fluor™ 647 Flow Cyton MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		644/665	Oxidation tracking
MitoTracker™ Deep Red FM Vybrant™ DyeCycle-Ruby Stain DRAQ5™		650/671	Apoptosis tracking
Vybrant™ DyeCycle∝Ruby Stain DRAQ5™	tometry Assay Kit	650/671 644/665	DNA stain Mitochondria/Organell
		638/686	DNA stain
Fluorescent Probe Solution (5 mM)		646/697	DNA stain DNA stain
DRAQ7™ Dye		646/697	DNA stain
Annexin V–Alexa Fluor™ 680 Conjugate		681/704	Apoptosis tracking
R2 708–752			
R3 750–810 LIVE/DEAD™ Fixable Scarlet (723) Viability Stain LIVE/DEAD™ Fixable Near-IR Dead Cell Stain	in	700/775 750/780	Fixable viability stain

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