ANNEXIN V SELECTION GUIDE

Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
Annexin V-Alexa Fluor® 350	350	343	441	2
Annexin V-iFluor® 350	350	345	450	3
Annexin V-iFluor® 488	488	491	516	9
Annexin V-FITC	488	491	516	7
Annexin V-Alexa Fluor® 488	488	499	520	8
Annexin V-TRITC	532	544	570	1
Annexin V-Cy3	561	555	569	1
Annexin V-iFluor® 555	561	557	570	8
Annexin V-iFluor® 594	561	588	604	6
Annexin V-Alexa Fluor® 594	561	590	618	4
Annexin V-iFluor® 633	640	640	654	10
Annexin V-iFluor® 647	640	656	670	6
Annexin V-Cy5	640	656	670	6
Annexin V-iFluor® 680	640	684	701	3
Annexin V-Cy5.5	640	684	701	3
Annexin V-iFluor® 700	640	690	713	4
Annexin V-Cy7	750	756	779	10
Annexin V-iFluor® 750	750	757	779	5

^{*} Brightness scale is 1 (dimmest) to 10 (brightest), as a comparison of all included dyes. Brightness is computed as a function of extinction coefficient, quantum yield and correction factor. Experimental brightness additionally dependent upon DOL of reagent used.

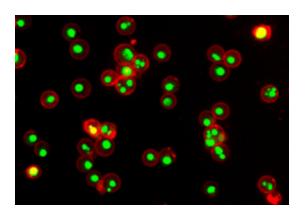
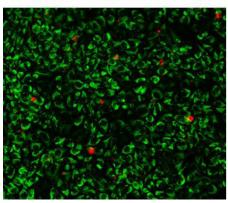


Figure 1. Jurkat cells were treated with 1 μM staurosporine for 4 hours to induce apoptosis. Following treatment, cells were stained with Annexin V-iFluor® 555 conjugate (Cat No. 20072). Nuclei were labeled with Nuclear Green™ DCS1 (Cat No. 17550). Images were acquired on a confocal microscope.

Untreated Control



Treated with 500 nM SS

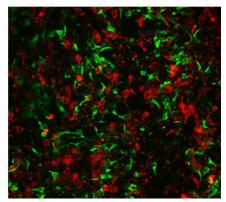
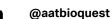


Figure 2. Fluorescence images of HeLa cells. Cells were treated with (Right) or without (Left) 500 nM staurosporine (SS) at 37 oC for 4 hours. Cells were then incubated with Annexin V-Cy5.5 conjugate (Red) and measured using fluorescence microscope with a Cy5 filter. Viable cells were labeled with CellbriteTM Orange (Shown as Green).











ANTIBODY & PROTEIN LABELING SELECTION GUIDE

Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
Alexa Fluor® 350	350	343	441	2
AMCA	350	346	434	2
iFluor® 350	350	345	450	3
Marina Blue	350	362	459	2
iFluor® 405	405	403	427	4
iFluor® 430	405	433	498	3
iFluor® 440	405	434	480	2
iFluor® 450	405	451	502	1
Pacific Blue™	405	404	455	5
Alexa Fluor® 488	488	499	520	6
Fluorescein	488	498	517	6
iFluor® 460	488	468	493	4
iFluor® 488	488	491	516	8
iFluor® 514	488	511	527	3
Oregon Green™ 488	488	496	524	7
iFluor® 532	532	537	560	7
iFluor® 546	532	541	557	7
TRITC	532	540	565	6
Alexa Fluor® 555	561	553	568	5
Alexa Fluor® 594	561	590	618	4
Cy3	561	554	568	3
iFluor® 555	561	557	570	7
iFluor® 560	561	560	571	8
iFluor® 568	561	568	587	6
iFluor® Ultra 594	561	586	601	9
iFluor® 594	561	588	604	5
iFluor® 597	561	598	618	3
iFluor® 610	561	610	628	4
Texas Red®	561	586	603	2
Alexa Fluor® 647	640	650	671	9
Alexa Fluor® 680	640	681	704	3
Alexa Fluor® 700	640	696	719	3
Cy5	640	650	669	7
iFluor® 633	640	640	654	9
iFluor® Ultra 647	640	655	670	7
iFluor® 647	640	656	670	5
iFluor® 660	640	663	678	3
iFluor® 665	640	667	692	2

Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
iFluor® 670	640	671	682	4
iFluor® 680	640	684	701	2
iFluor® 690	640	685	704	3
iFluor® 700	640	690	713	3
Alexa Fluor® 750	750	752	776	5
Су7	750	754	778	9
iFluor® A7	750	762	782	3
iFluor® 710	750	717	739	4
iFluor® 720	750	716	740	1
iFluor® 740	750	742	764	5
iFluor® Ultra 750	750	749	773	10
iFluor® 750	750	757	779	4
iFluor® 770	750	777	797	3
iFluor® 780	750	784	808	3
iFluor® 790	750	787	812	2
iFluor® 800	750	801	820	1
iFluor® 810	750	811	822	1
iFluor® 820	750	822	850	1
iFluor® 830	750	830	867	1
iFluor® 840	750	836	879	1
iFluor® 860	750	853	878	1
Indocyanine Green	750	788	813	1

^{*} Brightness scale is 1 (dimmest) to 10 (brightest), as a relative comparison of all included dyes. Brightness is computed as a function of extinction coefficient, quantum yield, and correction factor.

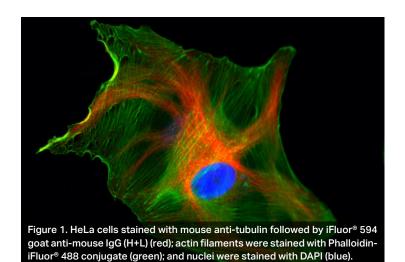


Figure 2. HeLa cells were incubated with mouse anti-tubulin followed by

iFluor® 514 goat anti-mouse IgG (H+L). Cell nuclei were stained with Hoechst 33342 (Blue, Cat# 17530).







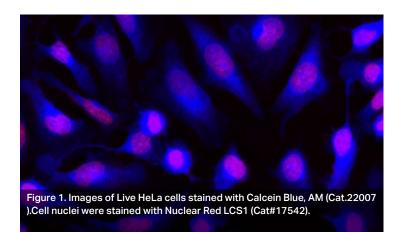




CALCEIN SELECTION GUIDE

Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
Calcein Blue	350	354	441	4
Calcein UltraBlue™	350	359	458	6
CytoCalcein™ Violet 450	405	406	445	7
CytoCalcein™ Violet 500	405	420	505	7
Calcein UltraGreen™	488	492	514	10
Calcein	488	501	521	3
Calcein Orange™	532	531	545	6
Calcein Red™	561	562	576	7
Calcein Deep Red™	640	643	663	7

^{*} Brightness scale is 1 (dimmest) to 10 (brightest), as a comparison of all included dyes. Brightness is computed as a function of extinction coefficient and quantum yield.



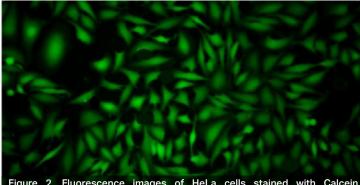
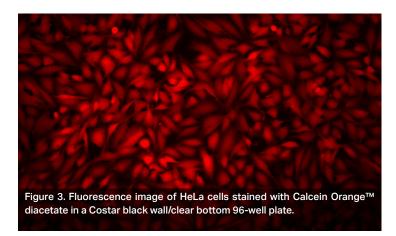
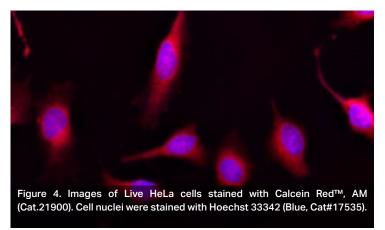


Figure 2. Fluorescence images of HeLa cells stained with Calcein UltraGreen™ AM in a Costar black wall/clear bottom 96-well plate. The cells were monitored using a microscope with FITC filter.













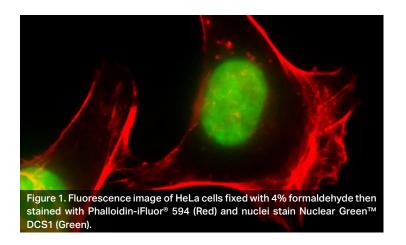


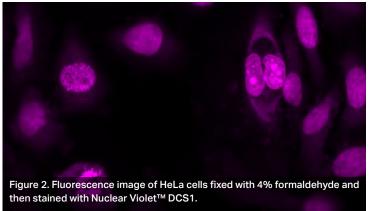


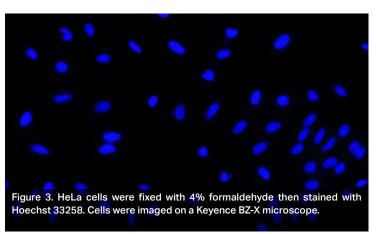
DNA DYES SELECTION GUIDE

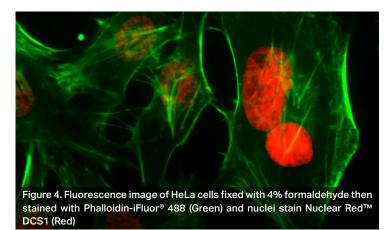
Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
Nuclear Blue™	350	348	469	10
Hoechst 33342	350	352	454	10
Hoechst 33258	350	352	454	2
DAPI	350	359	457	9
Nuclear Yellow (Hoechst S769121)	350	372	504	7
Nuclear Violet™	405	371	454	6
Acridine Orange	488	490	520	3
Nuclear Green™	488	503	527	8
Nuclear Orange™	488	514	556	5
Propidium lodide	532	537	618	1
Nuclear Red™	640	631	651	8

^{*} Brightness scale is 1 (dimmest) to 10 (brightest), as a comparison of all included dyes. Brightness is computed as a function of extinction coefficient and quantum yield.



















FLOW CYTOMETRY SELECTION GUIDE

mFluor™ LV37S mfluor™ LV37S mfluor™ LV460 mfluor™ Violet 450 mfluor™ Violet 500 mfluor™ Violet 500 mfluor™ Violet 510 mfluor™ Violet 510 mfluor™ Violet 540 mfluor™	Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
mFluor™Violet 450 405 410 501 5 mFluor™Violet 500 405 410 501 5 mFluor™Violet 510 405 412 505 5 mFluor™Violet 540 405 402 535 2 mFluor™Violet 610 405 402 535 2 mFluor™Violet 610 405 402 535 2 mFluor™Siolet 610 405 402 502 7 mFluor™Siolet 610 488 488 499 520 7 mFluor™Siolet 610 488 569 589 3 mFluor™Blue 590 488 569 589 3 mFluor™Blue 590 488 569 589 3 mFluor™Blue 590 488 566 574 10 mFluor™Siolet 620 488 566 574 10 mFluor™Siolet 620 488 566 666 9 mFluor™Siolet 620 488 566 677 9 mFluor™Siolet 620 488 566 778 9 mFluor™Siolet 620 532 525 633 1 mRillior™Tiolet 594 488 566 606 9 mFluor™Siolet 620 532 525 633 1 mRillior™Tiolet 532 525 633 1 mRillior™Siolet 620 532 525 633 1 mRillior™Siolet 630 561 564 568 4 mFluor™Siolet 630 561 564 568 4 mFluor™Siolet 630 561 564 568 4 mFluor™Tiolet 630 561 564 568 4 mFluor™Tiolet 630 561 570 632 1 mExas Rea™ 561 586 603 4 mPluor™Tiolet 640 651 779 7 mPluor™Tiolet 750 640 650 669 7 mFluor™Tiolet 750 640 651 779 7 mPluor™Tiolet 750 640 651 779 7 mPluor™Tiolet 750 640 650 669 7 mFluor™Tiolet 750 640 650 774 7 mPluor™Tiolet 750 640 650 774 7 mPluor™Tiolet 750 640 650 774 7 mPluor™Tiolet 750 640 754 778 2 mRillior™Tiolet 750 640 758 813 1 mRillior™Tiolet 750 640 650 669 7 mRillior™Tiolet 750 640 650 758 758 813 1 mRillior™Tiolet 750 640 650 669 7 mRillior™T	mFluor™ UV375	350	351	387	6
mFluor** Violet 500 405 410 501 5 mFluor** Violet 510 405 412 505 5 mFluor** Violet 540 405 402 535 2 mFluor** Violet 610 405 421 613 4 Alexa Fluor** 488 488 498 517 6 Fluorescein 488 498 517 6 IFluor** 810e 590 488 569 589 3 mFluor** Blue 590 488 569 589 3 mFluor** Blue 620 488 569 589 3 PE-Cy5 488 565 666 9 PE-Cy5 488 565 666 9 PE-Cy7 488 566 671 9 PE-Gy8 488 566 671 9 PE-Hour** 594 488 566 671 9 PE-Texas Red* 488 566 778 9 PE-Texas Red* 48	mFluor™ UV460	350	358	456	4
mFluor™ Violet 510	mFluor™ Violet 450	405	406	445	6
mFluor™Vlolet 540 405 402 535 2 mFluor™Vlolet 610 405 421 613 4 Alexa Fluor® 488 488 499 520 7 Fluorescein 488 499 520 7 Fluor® 488 488 498 517 6 ifluor® 8lue 590 488 569 589 3 mFluor® Blue 620 488 589 616 3 PE 488 566 574 10 PE-Cy5 488 566 574 10 PE-Cy5 488 565 666 9 PE-Cy5.5 488 566 671 9 PE-Cy5.7 488 566 778 9 PE-Fluor® 594 488 566 778 9 PE-Texas Red® 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Sroen 620 532 525 <td>mFluor™ Violet 500</td> <td>405</td> <td>410</td> <td>501</td> <td>5</td>	mFluor™ Violet 500	405	410	501	5
mFluor**Volet 610 405 421 613 4 Alexa Fluor** 488 488 499 520 7 Fluorescein 488 498 517 6 if Fluor** 488 488 491 516 8 m Fluor** Blue 590 488 569 589 3 m Fluor** Blue 620 488 589 616 3 PE 488 566 574 10 PE-Cy5 488 565 666 9 PE-Cy5.5 488 565 666 9 PE-Gy7 488 566 671 9 PE-IFluor** 594 488 566 778 9 PE-Hexas Red* 488 566 778 9 PE-ISexas Red* 488 567 615 9 mFluor** Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 574	mFluor™ Violet 510	405	412	505	5
Alexa Fluor* 488	mFluor™ Violet 540	405	402	535	2
Fluorescein	mFluor™ Violet 610	405	421	613	4
IFIuor™ Blue 590 488 491 516 8 mFluor™ Blue 590 488 569 589 3 mFluor™ Blue 620 488 589 616 3 PE 488 566 574 10 PE-Cy5 488 565 666 9 PE-Cy7 488 565 671 9 PE-Itluor™ 594 488 566 778 9 PE-Itluor™ 750 488 566 778 9 PE-Texas Red® 488 566 778 9 mFluor™ Green 620 532 525 623 1 TRIC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 560 9 APC-Alexa Fluor™ 750 640 651 779 7 APC-Cy7 640 651 778 2	Alexa Fluor® 488	488	499	520	7
mFluor™ Blue 590 488 569 589 3 mFluor™ Blue 620 488 589 616 3 PE 488 566 574 10 PE-Cy5 488 565 666 9 PE-Cy5.5 488 565 671 9 PE-Gy7 488 566 778 9 PE-lifluor* 594 488 566 606 9 PE-lifluor* 750 488 566 778 9 PE-Texas Red* 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRTC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red* 561 586 603 4 APC 640 651 560 9 APC-Alexa Fluor* 750 640 651 779 7 APC-Gy7 640 651 780 8	Fluorescein	488	498	517	6
mFluor™ Blue 620 488 589 616 3 PE 488 566 574 10 PE-Cy5 488 565 666 9 PE-Cy7 488 565 671 9 PE-IFluor® 594 488 566 606 9 PE-IFluor® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 586 603 4 APC 640 651 779 7 APC-Gy7 640 651 779 7 APC-Gy7 640 651 780 8 Cy5 640 650 669 7	iFluor® 488	488	491	516	8
PE 488 566 574 10 PE-Cy5 488 565 666 9 PE-Cy5.5 488 565 671 9 PE-Cy7 488 566 778 9 PE-IFILUOT® 594 488 566 606 9 PE-IFILUOT® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 560 9 APC-Alexa Fluor® 750 640 651 779 7 APC-Cy7 640 651 780 8 Cy5 640 651 780 8 Cy5.5 640 683 703 5 Cy7<	mFluor™ Blue 590	488	569	589	3
PE-Cy5 488 565 666 9 PE-Cy5.5 488 565 671 9 PE-Cy7 488 566 778 9 PE-IFluor® 594 488 566 606 9 PE-IFluor® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 560 9 APC-Alexa Fluor® 750 640 651 779 7 APC-Gy7 640 651 780 8 Cy5 640 683 703 5 Cy5.5 640 683 703 5 Cy7.7 640 754 778 2 Indoc	mFluor™ Blue 620	488	589	616	3
PE-Cy5.5 488 565 671 9 PE-Cy7 488 566 778 9 PE-IFluor® 594 488 566 606 9 PE-IFluor® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 560 9 APC-Alexa Fluor® 750 640 651 779 7 APC-Gy7 640 651 780 8 Cy5 640 651 780 8 Cy5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 680 695 3 <td>PE</td> <td>488</td> <td>566</td> <td>574</td> <td>10</td>	PE	488	566	574	10
PE-Cy7 488 566 778 9 PE-IFILuor® 594 488 566 606 9 PE-IFILuor® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 651 779 7 APC-Gy7 640 651 779 7 APC-IFluor® 750 640 651 780 8 Cy5 640 651 780 8 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 680 695 3 <t< td=""><td>PE-Cy5</td><td>488</td><td>565</td><td>666</td><td>9</td></t<>	PE-Cy5	488	565	666	9
PE-iFluor® 594 488 566 606 9 PE-iFluor® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 560 9 APC-Alexa Fluor® 750 640 650 774 7 APC-iFluor® 750 640 651 780 8 Cy5 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 680 695 3	PE-Cy5.5	488	565	671	9
PE-iFluor® 750 488 566 778 9 PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-iFluor® 750 640 651 780 8 Cy5 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™Red 700 640 680 695 3	PE-Cy7	488	566	778	9
PE-Texas Red® 488 567 615 9 mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-Gy7 640 651 780 8 Cy5 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	PE-iFluor® 594	488	566	606	9
mFluor™ Green 620 532 525 623 1 TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-GFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	PE-iFluor® 750	488	566	778	9
TRITC 532 540 565 7 Cy3 561 554 568 4 mFluor™Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-iFluor® 750 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	PE-Texas Red®	488	567	615	9
Cy3 561 554 568 4 mFluor™Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-Gy7 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	mFluor™ Green 620	532	525	623	1
mFluor™ Yellow 630 561 570 632 1 Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-iFluor® 750 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	TRITC	532	540	565	7
Texas Red® 561 586 603 4 APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-iFluor® 750 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	Cy3	561	554	568	4
APC 640 651 660 9 APC-Alexa Fluor® 750 640 650 774 7 APC-Cy7 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	mFluor™ Yellow 630	561	570	632	1
APC-Alexa Fluor® 750 640 650 774 7 APC-Cy7 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	Texas Red®	561	586	603	4
APC-Cy7 640 651 779 7 APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	APC	640	651	660	9
APC-iFluor® 750 640 651 780 8 Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	APC-Alexa Fluor® 750	640	650	774	7
Cy5 640 650 669 7 Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	APC-Cy7	640	651	779	7
Cy5.5 640 683 703 5 Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	APC-iFluor® 750	640	651	780	8
Cy7 640 754 778 2 Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	Cy5	640	650	669	7
Indocyanine Green 640 788 813 1 mFluor™ Red 700 640 680 695 3	Cy5.5	640	683	703	5
mFluor™ Red 700 640 680 695 3	Су7	640	754	778	2
	Indocyanine Green	640	788	813	1
mFluor™ Red 780 640 629 767 2	mFluor™ Red 700	640	680	695	3
	mFluor™ Red 780	640	629	767	2

^{*} Brightness scale is 1 (dimmest) to 10 (brightest), as a comparison of all included dyes. Brightness is computed as a function of extinction coefficient and quantum yield. Actual performance will vary due to instrumentation settings. Guide above was developed on a Cytek flow cytometer.













LIVE OR DEAD KITS SELECTION GUIDE

Live or Dead™ Fixable Dead Cell Staining Kits

Cat. no.	Kit Color	Laser	Filter	Ex (nm)	Em (nm)	Channel
22600	Blue	UV (350 nm)	450/40 nm	353	442	Pacific Blue
22502	Orange Fluorescence with 405 nm Excitation	Violet (405 nm)	525/50 nm	398	550	Pacific Orange
22501	Green Fluorescence with 405 nm Excitation	Violet (405 nm)	525/40 nm	408	512	AmCyan
22500	Blue Fluorescence with 405 nm Excitation	Violet (405 nm)	450/40 nm	410	450	Pacific Blue
22601	Green	Blue (488 nm)	530/30 nm	498	521	FITC
22599	Red Fluorescence Optimized for Flow Cytometry	Blue/Green (488/532 nm)	610/20 nm	523	617	Custom
22602	Orange	Blue/Green (488/532 nm)	575/26 nm	547	573	PE
22603	Red	Yellow (561 nm)	610/20 nm	583	603	PE-Texas Red
22604	Deep Red	Red (640 nm)	660/20 nm	649	660	APC
22605	NIR Fluorescence	Red (640 nm)	789/60 nm	749	775	APC-Cy7

^{*} All Live or Dead™ Fixable Dead Cell Staining Kits are ideal for flow cytometry.

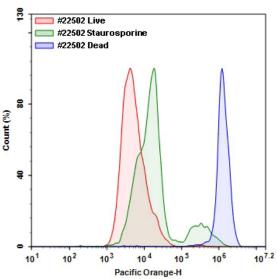


Figure 1. Jurkat cell viability detected by Live or Dead™ Fixable Dead Cell Staining Kit (Cat# 22502). Cells were treated, stained with Stain It™ V550, fixed in 3.7% formaldehyde, then analyzed by flow cytometry. Live (red), staurosporine treated (green) and heat-treated (blue) cells were distinguished with Pacific Orange channel.

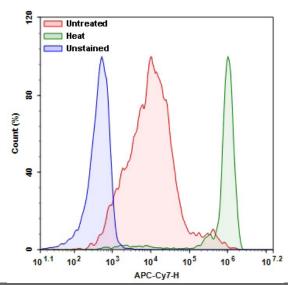


Figure 2. Jurkat cell viability detected by Live or DeadTM Fixable Dead Cell Staining Kits (Cat#22605). Cells were treated, stained with Stain ItTM NIR, fixed in 3.7% formaldehyde, then analyzed by flow cytometry. Live (red), heat-treated (green) and unstained (blue) cells were distinguished with APC-Cy7 channel.

Dual-Excitation Cell Viability Kits

Cat. no.	Kit	Cell Type	Probes	Ex (nm)	Em (nm)	Live Color	Dead Color	Platforms	
22788	Live or Dead™ Cell Viability Assay Kit	Eukaryotic	Cellbrite™ Red	613	631	Red	Blue	Fluorescence Microscope, Microplate, or Flow	
22,000 2.100 0. 0 000 000. 1100() 7.000/ 1110			Nuclear Blue™ DCS1	348	469			Cytometry	
22789	Live or Dead™ Cell Viability Assay Kit	Eukaryotic	CytoCalcein™ Green	494	514	Green	Red	Fluorescence Microscope, Microplate, or Flow	
22709	22709 Live of Dead Cell Vlability Assay Nit	Lukaryotic	Propidium lodide	537	618	dicen	ned	Cytometry	
22411	MycoLight™ Fluorescence Live/Dead Bacterial	Bacterial	MycoLight™ 520	488	530	Green	Red	Fluorescence Microscope	
22411	Imaging Kit	Dacterial	Propidium lodide	537	618	Gleen	neu	riuorescence Microscope	
22476	Live or Dead™ Yeast CFDA-AM/Propidium lodide	Voast	CFDA-AM	498	517	Croon	Dad	Flow Cutomotry	
22476	Vitality Kit	Yeast	Propidium lodide	537	618	Green	Red	Flow Cytometry	

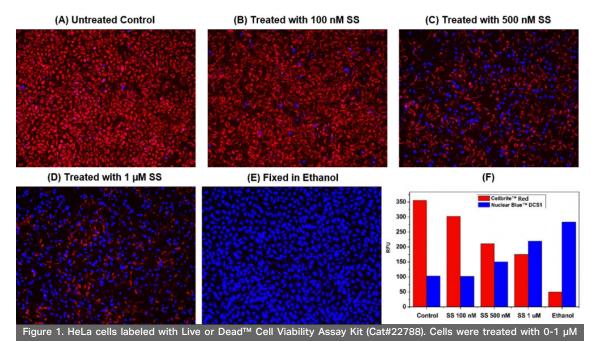


Figure 2. Live & dead *Bacillus subtilis* stained with MycoLight™ Fluorescence

staurosporine at 37°C for 4 hrs (A-D), or fixed in ethanol (E), then incubated with dye-loading solution for 1 hr. Signal was measured using fluorescence microscope with Texas Red/Cy5 filter for viable cells (Red) and DAPI for necrotic cells (Blue), showed green fluorescence. 70% alcohol-killed dead bacteria showed red.

ved. All trademarks and registered trademarks mentioned herein













PHALLOIDIN SELECTION GUIDE

Cat. no.	Conjugate	MW	Laser	Filter	Ex (nm)	Em (nm)	Brightness
23150	XFD350	~1100	355	DAPI	343	441	1
23110	iFluor® 350	~1300	355	DAPI	345	450	2
23100	AMCA	~1100	355	DAPI	346	434	1
23111	iFluor® 405	~1400	405	DAPI	403	427	4
23115	iFluor® 488	~1400	488	FITC	491	516	8
23101	Fluorescein	~1100	488	FITC	498	517	5
23153	XFD488	~1300	488	FITC	499	520	6
23102	Tetramethylrhodamine	~1300	488	TRITC/Cy3	498	517	1
23116	iFluor® 514	~1800	488	TRITC	511	527	3
23117	iFluor® 532	~1800	532	TRITC	537	560	7
23119	iFluor® 555	~1300	532	TRITC	557	570	7
23122	iFluor® 594	~1600	561	Texas Red	588	604	10
23158	XFD594	~1600	561	Texas Red	590	618	8
23125	iFluor® 633	~1703.99	561	Texas Red	640	654	9
23127	iFluor® 647	~1408.65	640	Cy5	656	670	6
23128	iFluor® 680	~2000	640	Cy5.5	684	701	4
23129	iFluor® 700	~3000	640	Cy5.5	690	713	5
23130	iFluor® 750	~3300	750	Су7	757	779	3
23131	iFluor® 790	~2800	750	Су7	787	812	2

^{*} Brightness scale is 1 (dimmest) to 10 (brightest), as a comparison of all included dyes. Brightness is computed as a function of extinction coefficient, quantum yield, and correction factor.

