



Fluorescent and Viability Dyes for Flow Cytometry

StarBright™ Dye	Laser Line	Max Ex, nm	Max Em, nm	Relative Brightness
SBUV400	355	335	394	■■■■
SBUV445	355	347	440	■■
SBUV510	355	340	513	■■
SBUV575	355	340	569	■■■■
SBUV605	355	340	609	■■■■
SBUV665	355	340	669	■■■■
SBUV740	355	344	743	■■■■
SBUV795	355	340	792	■■■■
SBV440	405	383	436	■■■■■
SBV475	405	405	479	■■■■■
SBV515	405	402	516	■■■■■
SBV570	405	404	571	■■■■■
SBV610	405	403	607	■■■■■
SBV670	405	401	667	■■■■■
SBV710	405	402	713	■■■■■
SBV760	405	403	754	■■■■■
SBV790	405	402	782	■■■■■
SBB580	488	475	582	■■■■
SBB615	488	475	612	■■■■
SBB675	488	476	675	■■■■■
SBB700	488	473	703	■■■■■
SBB765	488	476	764	■■■■■
SBB810	488	477	802	■■■■■
SBY575	561	548	579	■■■
SBY605	561	572	606	■■■
SBY665	561	554	670	■■■
SBY720	561	549	719	■■■■■
SBY800	561	549	788	■■■■■
SBR670	640	653	666	■■■■■
SBR715	640	638	712	■■■■■
SBR775	640	653	778	■■■■■
SBR815	640	654	811	■■■■■

Abbreviations: 7-AAD, 7-aminoactinomycin D; AMO, Amethyst Orange; APC, allophycocyanin; Axxx, Alexa Fluor; Cy, cyanine; DAPI, 4',6'-diamidino-2-phenylindole dihydrochloride; FITC, fluorescein isothiocyanate; Max Em, maximum emission; Max Ex, maximum excitation; PB, Pacific Blue; PE, phycoerythrin; PerCP, peridinin chlorophyll protein; PI, propidium iodide; SBB, StarBright Blue; SBR, StarBright Red; SBUV, StarBright UltraViolet; SBV, StarBright Violet; SBY, StarBright Yellow.

Fluorescent Dye	Laser Line	Max Ex, nm	Max Em, nm	Relative Brightness
PB	405	410	455	■
AMO	405	405	540	■
A488	488	495	519	■■■
FITC	488	490	525	■■■
PerCP	488	490	675	■■■
PerCP-Cy5.5	488	490	695	■■■
PE	488 561	496/546	578	■■■■■
PE-A647	488 561	496/546	667	■■■■■
PE-Cy5	488 561	496/546	667	■■■■■
PE-Cy5.5	488 561	496/546	695	■■■■■
PE-A750	488 561	496/546	779	■■■■■
PE-Cy7	488 561	496/546	785	■■■■■
APC	640	650	661	■■■■■
A647	640	650	665	■■■■■
A700	640	702	723	■■■
APC-Cy7	640	650	785	■■■

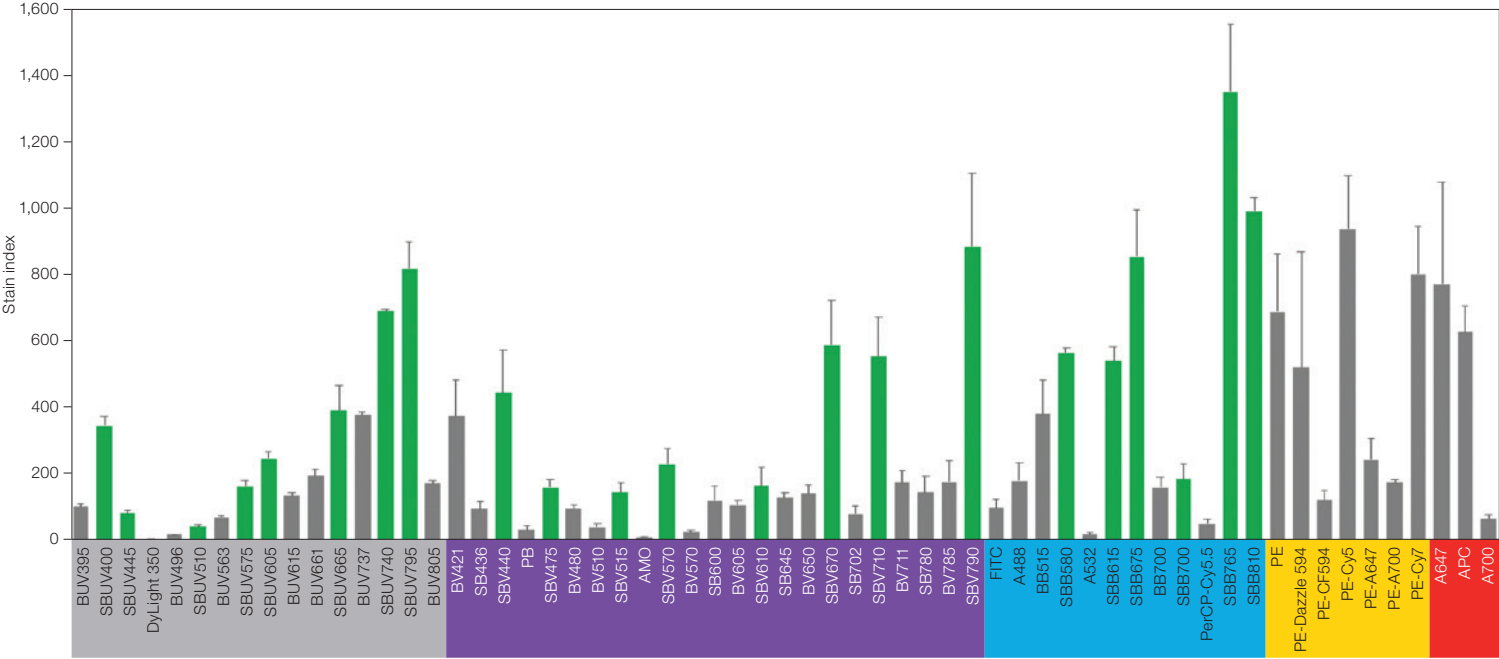
Viability Dye	Laser Line	Max Ex, nm	Max Em, nm
VivaFix 353/442	355	353	442
DAPI	355 405	359	461
PI	355 488 561	490	617
VivaFix 410/450	405	410	450
VivaFix 408/512	405	408	512
VivaFix 398/550	405	389	550
VivaFix 498/521	488	498	521
7-AAD	488 561	546	647
VivaFix 547/573	561	547	573
VivaFix 583/603	561	583	603
VivaFix 649/660	640	649	660

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Stain Index of Common Fluorescent Dyes Used in Flow Cytometry



Stain index comparison. Index of CD4-stained human peripheral blood stained with StarBright Dyes, and other common flow cytometry dyes. Data generated are the average of three to four donors. Antibodies were titrated prior to use and analyzed on the ZE5 Cell Analyzer. StarBright Dyes are shown in green. AMO, Amethyst Orange; APC, allophycocyanin; Axxx, Alexa Fluor; BB, Brilliant Blue; BUV, Brilliant Ultraviolet; BV, Brilliant Violet; Cy, cyanine; FITC, fluorescein isothiocyanate; PB, Pacific Blue; PE, phycoerythrin; PerCP, peridinin chlorophyll protein; SB, Super Bright; SBB, StarBright Blue; SBUV, StarBright UltraViolet; SBV, StarBright Violet.

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