

Fluorescent dyes that can be used in instruments with lasers providing excitation at wavelengths other than 488 nm.

| Laser | Excitaton/Emission wavelengths | Stain ¹ | Use |
|--------|--------------------------------|---|---|
| UV | 340/660-670 | Europium-APC chelate | Conjugation to proteins |
| | 340/750-790 | Europium-APC-CY7 chelate | Conjugation to proteins |
| | 340/570-590 | Terbium-PE chelate | Conjugation to proteins |
| | 346/442 | Alexa™ 350 | Conjugation to proteins |
| | 346/401:475 | Indo-1 AM | Calcium concentrations |
| | 350/461 | Hoechst 33342 | Vital DNA stain; AT selective |
| | 352/461 | Hoechst 33258 | Vital DNA stain; AT selective |
| | 353/442 | AMCA | Conjugation to proteins and nucleic acids |
| | 358/461 | DAPI | Vital DNA stain; AT selective |
| | 365 | 2,3-dicyanohydroquinone (DCH), loaded as 1,4,-diacetoxy-2,3,-dicyanobenzene (ADB) | pH measurement |
| | 365,518/605 | Dihydroethidium (Hydroethidine™) | Metabolic burst, oxidative metabolism |
| Violet | 365,535/617 | Propidium iodide | Impermeant DNA stain; viability |
| | 400/420 | Cascade Blue | Conjugation to proteins but high non-specific binding |
| | 431/541 | Alexa™ 430 | Conjugation to proteins |
| | 431/480 | SYTOX Blue | DNA stain |
| Blue | 445/575 | Chromomycin A3 | DNA stain; GC selective |
| | 445/575 | Mithramycin | DNA stain; GC selective |
| | 480,565,650/670 | PE-CY5 | Conjugation to proteins |
| | 480,565,743/767 | PE-CY7 | Conjugation to proteins |
| | 490/675 | PerCP | Conjugation to proteins |
| | 500-570,625,650/682 | CY5 | Conjugation to proteins |
| Green | 512,532/565,615 | CY3 | Conjugation to proteins |
| | 531/554 | Alexa™ 532 | Conjugation to proteins |
| | 543/712 | LDS-751 | as a vital DNA stain |
| | 543/571 | Texas Red-X | Conjugation to proteins |
| | 556/573 | Alexa™ 546 | Conjugation to proteins |
| | 546/647 | 7-amino actinomycin D | Impermeant DNA stain; GC selective |
| | 547/570 | SYTOX Orange | DNA stain |
| | 548/579 | SNARF-1 | pH measurement |
| Yellow | 578/603 | Alexa™ 568 | Conjugation to proteins |
| | 587/602 | Texas Red | Conjugation to proteins |
| | 590/607 | LDS-751 | as a vital RNA stain |
| | 590/617 | Alexa™ 594 | Conjugation to proteins |
| | 610/639 | Oxonol-V | Transmembrane potential |
| Red | 621/634 | SYTO 17 | DNA stain |
| | 642/661 | TO-PRO®-3 | Moderately high affinity DNA stain |
| | 490,675/695 | PerCP-CY5.5 (TruRed) | Conjugation to proteins |
| | 642/660 | TOTO-3 | High affinity DNA stain |
| | 649/671 | DiSC ₂ (5) | Transmembrane potential |

| | | | |
|---------|-------------|-------------------|-------------------------|
| | 650/660 | APC | Conjugation to proteins |
| | 650,755/767 | APC-CY7 (PharRed) | Conjugation to proteins |
| Far red | 743/767 | CY7 | Conjugation to proteins |

¹ADB = 1,4-diacetoxy-2,3-dicyanobenzene); AMCA = 7-amino-4-methylcoumarin-3-acetic acid; APC = allophycocyanin; APC-CY7 = allophycocyanin-cyanin7; DAPI = 4', 6-diamidino-2-phenylindole; DCH = 2,3-dicyanohydroquinone; DiSC₂(5) = a thia carbocyanine dye; PE-CY5 = phycoerythrin-cyanin5; PE-CY7 = phycoerythrin-cyanin7; PerCP = peridinin chlorophyll protein; SNARF-1 = a seminaphthorhodafluor dye; SYTO® 17 = a cyanine dye; SYTOX® Blue = ; TO-PRO®-3 = a monomeric cyanine dye; TOTO®-3 = a dimeric cyanine dye.