

# Sample Preparation Guide



## Fluorochrome Chart

Ch	Band (nm)	Excitation Laser (nm)								Used	Ch	
		375	405	488	561	592	642	730	785			
1	435-505 (457/45)	<b>*DAPI, BV421, AF350,</b> Hoechst, PacBlue, CascadeBlue, e,	<b>*DAPI, BV421, AF405,</b> Hoechst, PacBlue, CascadeBlue, , eFluor450, DyLight405, CFP, LIVE/DEAD Violet									1
2	505-560 (533/55)	<b>*BV510,</b> PacOrange, CascadeYellow, AF430, eFluor525, QD525,	<b>*BV510,</b> PacOrange, CascadeYellow, AF430, eFluor525, QD525,	<b>FITC, AF488, GFP,</b> YFP, DyLight488, PKH67, Syto13, SpectrumGreen, LysoTrackerGreen, MitoTrackerGreen								2
3	560-595 (577/35)	<b>*QD565, QD585,</b> eFluor565	<b>*QD565, QD585,</b> eFluor565	<b>PE, PKH26, DSRed,</b> mOrange, CellMask/CellTracker/SYTOX Orange, Cy3	<b>PE, AF546,</b> Cy3*, DyLight550, PKH26, DSRed, SpctmOrng, MTOrg							3
4	595-642 (610/30)	<b>*QD625,</b> eFluor625, BV605	<b>*QD625,</b> eFluor625, BV605	<b>PE-TexRed, ECD,</b> PE-AF610, PI, RFP, QD625, eFluor625	<b>AF568,</b> Cy3*, PE-TexRed, ECD, TexRed, PE-AF610, RFP, mCherry, PI	<b>TexRed,</b> AF594, DyLight594, mCherry, SpectrumRed, PI,						4
5	642-745 (702/85)	<b>*QD705,</b> eFluor700, BV711	<b>*QD705,</b> eFluor700, BV711	<b>PE-Cy5, PE-AF647,</b> 7AAD, PerCP, PerCP-Cy5.5, DRAQ5, QD705, eFluor650, FuraRedlo, DRAQ5*, LDS 751	<b>PE-Cy5, PE-AF647,</b> DRAQ5*, 7AAD, LDS751	<b>APC, AF647, AF660,</b> AF680, APC, Cy5, DyLight649, PE-AF647, PE-Cy5, DRAQ5*	<b>APC, AF647, AF660,</b> AF680, DRAQ5, Cy5, DyLight649, DyLight680, PE-AF647, PE-Cy5, PerCP, PerCP-Cy5.5					5
6	745-780 (762/35)	<b>*QD800,</b> BV786	<b>*QD800,</b> BV786	<b>PE-Cy7, PE-AF750,</b> QD800	<b>PE-Cy7, PE-AF750</b>	<b>APC-Cy7, APC-AF750,</b> APC-H7, APC-eFluor750	<b>APC-Cy7, APC-AF750,</b> APC-H7 APC-eFluor750, Cy7, AF750, DyLight750, PE-Cy7, PE-AF750	<b>AF750, Cy7,</b> DyLight750, PE-Cy7, PE-AF750	<b>SSC</b>			6

Recommended dyes (based on optimal excitation and detection channels) are in boldface.

\*Many dyes will excite by more than one laser, and this can increase cross camera compensation.

\*\*Channel bandpass may change depending on which lasers are on during an experiment. Values listed are assuming 405,488, and 642 laser excitation.

1 laser (488): ideal dyes are BF, AF488, PE, PE-TxRed, PE-Cy5, SSC

2 laser (488,642): ideal dyes are BF, AF488, PE, PE-TxRed, AF647, SSC

3 laser (405,488,642): ideal dyes are DAPI, AF488, PE, PE-TxRed, AF647, SSC/BF