



# Flow cytometry fluorochromes and instruments

Fluorochrome	Laser	Excitation max. (nm)	Emission max. (nm)	Miltenyi Biotec		Beckman Coulter®				Becton, Dickinson and Company					iCyt™		Millipore™		
				MACSQuant® Analyzer	MACSQuant® VYB	Beckman Coulter® FC500	Beckman Coulter® Navios/Gallios	Beckman Coulter® Cyan™ ADP	Beckman Coulter® MoFlo™	BD™ FACSCalibur™	BD™ FACSCanto™ II	BD™ Influx™	BD™ FACSARIA™ III	BD™ LSR Fortessa™	BD™ Accuri™ C6	iCyt™ Synergy syc3200™	iCyt™ Eclipse™ ec800™	Guava® EasyCyte™ 8HT	Guava® EasyCyte™ 5HT
				Analyzer	Analyzer	Analyzer	Analyzer	Analyzer	Cell sorter	Analyzer	Analyzer	Cell sorter	Cell sorter	Analyzer	Analyzer	Cell sorter	Analyzer	Analyzer	Analyzer
<b>Violet laser – V1 channel</b>																			
<b>Brilliant Violet™ 421</b>	360, 405	405	421	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	460/50	450/40	450/50		425/20	455/50 (FL-1)		
<b>Alexa Fluor® 405</b>	360, 405	401	421	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	460/50	450/40	450/50		425/20	455/50 (FL-1)		
<b>BD™ Horizon™ v450</b>	405	406	450	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	460/50	450/40	450/50		455/50	455/50 (FL-1)		
<b>VioBlue® Miltenyi Biotec</b>	405	400	452	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	460/50	450/40	450/50		455/50	455/50 (FL-1)		
<b>Pacific Blue™</b>	360, 405	410	455	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	460/50	450/40	450/50		455/50	455/50 (FL-1)		
<b>DAPI</b>	325, 360, 405, 407	359	461	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	460/50	450/40	450/50		455/50	455/50 (FL-1)		
<b>AmCyan</b>	405, 457	458	489	450/50 (V1)	450/50 (V1)		450/50 (FL-9)	450/50 (FL-6)	450/65		450/50	520/35	450/40	450/50		455/50	455/50 (FL-1)		
<b>Violet laser – V2 channel</b>																			
<b>BD Horizon v500</b>	405	415	500	525/50 (V2)	525/50 (V2)		550/40 (FL-10)	530/40 (FL-7)	542/50		510/50	520/35	510/50	525/50		585/40**	595/50 (FL-3)		
<b>VioGreen™ Miltenyi Biotec</b>	405	388	520	525/50 (V2)	525/50 (V2)		550/40 (FL-10)	530/40 (FL-7)	542/50		510/50	520/35	510/50	525/50		585/40**	595/50 (FL-3)		
<b>Krome Orange™</b>	405	398	528	525/50 (V2)	525/50 (V2)		550/40 (FL-10)	530/40 (FL-7)	542/50		510/50	520/35	510/50	525/50		585/40**	595/50 (FL-3)		
<b>Pacific Orange™</b>	360, 405	400	551	525/50 (V2)	525/50 (V2)		550/40 (FL-10)	530/40 (FL-7)	542/50		510/50	550/50	510/50	525/50		585/40	595/50 (FL-3)		
<b>Brilliant Violet 570</b>	405	405	570				550/40 (FL-10)		542/50			550/50	575/26	560/20		585/40	595/50 (FL-3)		
<b>Blue laser</b>																			
<b>FITC Miltenyi Biotec</b>	488	493	525	525/50 (B1)	525/50 (B1)	525/30 (FL-1)	525/50 (FL-1)	530/40 (FL-1)	530/40	530/30 (FL-1)	530/30	530/40	530/30	530/30	533/30 (FL-1)	525/50	525/50 (FL-2)	525/30 (Green)	525/30 (Green)
<b>PerCP Miltenyi Biotec</b>	488	482	675	655–730 (B3)		675/30 (FL-4)	695/30 (FL-4)	680/30 (FL-4)	670/30	670 LP (FL-3)	670 LP	670/30	675/20	695/40	670 LP (FL-3)	665/30	665/30 (FL-4)	690/50 (Red1)	680/30 (Red1)
<b>PerCP-Cy™5.5</b>	488	482	690	655–730 (B3)		675/30 (FL-4)	695/30 (FL-4)	680/30 (FL-4)	670/30	670 LP (FL-3)	670 LP	710/50	695/40	695/40	670 LP (FL-3)	695/30	700/75 (FL-4)	690/50 (Red1)	680/30 (Red1)
<b>PerCP-Vio700 Miltenyi Biotec</b>	488	482	700	655–730 (B3)		675/30 (FL-4)	695/30 (FL-4)	680/30 (FL-4)	670/30	670 LP (FL-3)	670 LP	710/50	695/40	695/40	670 LP (FL-3)	695/30	700/75 (FL-4)	690/50 (Red1)	
<b>Yellow laser</b>																			
<b>PE Miltenyi Biotec</b>	488, 561	496, 565	575	585/40 (B2)	586/15 (Y1)	575/30 (FL-2)	575/26 (FL-2)	575/25 (FL-2)	580/23	585/42 (FL-2)	585/42	543/40	582/15	575/26	585/20 (FL-2)	585/40	595/50 (FL-3)	583/26 (Yellow)	583/26 (Yellow)
<b>PE-Texas Red®</b>	488, 561	496, 565	613	585/40 (B2)	615/50 (Y2)	620/30 (FL-3)	620/30 (FL-3)	613/20 (FL-3)	613/20	585/42 (FL-2)	585/42	610/20	610/20	610/20	630/30 (FL-3)*	665/30	595/50 (FL-3)		
<b>PE-Cy5</b>	488, 561	496, 565	670	655–730 (B3)	661/20 (Y3)	675/30 (FL-4)	695/30 (FL-4)	680/30 (FL-4)	670/30	670 LP (FL-3)	670 LP	670/30	670/14	695/40	670 LP (FL-3)	665/30	665/30 (FL-4)	690/50 (Red1)	680/30 (Red1)
<b>PE-Cy5.5</b>	488, 561	496, 565	690	655–730 (B3)	661/20 (Y3)	675/30 (FL-4)	695/30 (FL-4)	680/30 (FL-4)	725/40	670 LP (FL-3)	670 LP	710/50	710/50	710/50	670 LP (FL-3)	695/50	700/75 (FL-4)	690/50 (Red1)	
<b>PE-Cy7</b>	488, 561	496, 565	774	750 LP (R2)	750 LP (Y4)	755/30 (FL-5)	755 LP (FL-5)	750 LP (FL-5)	750 LP	670 LP (FL-3)	780/60	750 LP	780/60	780/60	670 LP (FL-3)	775/50	780/40 (FL-5)	785/70 (NIR1)	
<b>PE-Vio770™ Miltenyi Biotec</b>	488, 561	496, 565	775	750 LP (R2)	750 LP (Y4)	755/30 (FL-5)	755 LP (FL-5)	750 LP (FL-5)	750 LP	670 LP (FL-3)	780/60	750 LP	780/60	780/60	670 LP (FL-3)	775/50	780/40 (FL-5)	785/70 (NIR1)	
<b>Red laser</b>																			
<b>APC Miltenyi Biotec</b>	561, 638	652	660	655–730 (R1)	661/20 (Y3)	675/30 (FL-4)	660/20 (FL-6)	665/20 (FL-8)	670/40	661/16 (FL-4)	660/20	670/30	660/20	670/14	675/25 (FL-4)	665/30	665/30 (FL-4)	661/19 (Red2)	
<b>Alexa Fluor 647</b>	561, 638	650	668	655–730 (R1)	661/20 (Y3)	675/30 (FL-4)	660/20 (FL-6)	665/20 (FL-8)	670/40	661/16 (FL-4)	660/20	670/30	660/20	670/14	675/25 (FL-4)	665/30	665/30 (FL-4)	661/19 (Red2)	
<b>APC-Cy5.5</b>	561, 638	650	690	655–730 (R1)	661/20 (Y3)	675/30 (FL-4)	725/20 (FL-7)	665/20 (FL-8)	670/40	660/20	692/40	730/45	685/35	780/68 (FL-4)	665/30	700/75 (FL-4)	661/19 (Red2)		
<b>APC-Cy7</b>	561, 638	650	774	750 LP (R2)	750 LP (Y4)	755/30 (FL-5)	755 LP (FL-8)	750 LP (FL-9)	740 LP	780/60	750 LP	780/60	780/60	780/60	780/68 (FL-4)*	775/50	780/40 (FL-5)	785/70 (NIR2)	
<b>APC-Alexa Fluor 750</b>	561, 638	650	774	750 LP (R2)	750 LP (Y4)	755/30 (FL-5)	755 LP (FL-8)	750 LP (FL-9)	740 LP	780/60	750 LP	780/60	780/60	780/60	780/68 (FL-4)*	775/50	780/40 (FL-5)	785/70 (NIR2)	
<b>APC-Vio770 Miltenyi Biotec</b>	561, 638	652	775	750 LP (R2)	750 LP (Y4)	755/30 (FL-5)	755 LP (FL-8)	750 LP (FL-9)	740 LP	780/60	750 LP	780/60	780/60	780/60	780/68 (FL-4)*	775/50	780/40 (FL-5)	785/70 (NIR2)	
<b>APC-H7</b>	561, 638	658	785	750 LP (R2)	750 LP (Y4)	755/30 (FL-5)	755 LP (FL-8)	750 LP (FL-9)	740 LP	780/60	750 LP	780/60	780/60	780/60	780/68 (FL-4)*	775/50	780/40 (FL-5)	785/70 (NIR2)	

\* Optional filter \*\* Multiple filter choices available

Researchers should check on the specific filter sets for available instrumentation.

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