

# Fluorochromes for Flow Cytometry and Microscopy

Fluorochrome	Excitation Max (nm)	Excitation Laser Lines (nm)	Emission Max (nm)	BD FAC-Scan™	BD FAC-Scalibur™	BD FACSVantage™ SE	BD FAC-SCanto™	BD FAC-SCanto™ II	BD™	LSR II	BD FAC-SARIA™	Beckman Coulter® EPICS® XL™/XL-MCL™	Beckman Coulter® FC 500	CYTOPEIA inFlux™	Dako CyAn™ ADP	Dako MoFlo®	Guava EasyCyte	iCyt Reflection®	Accuri C6™ Flow Cytometer	Amnis ImageStream®	Fluorochrome			
Cascade Blue®	377	360, 405, 407	420			DAPI			DAPI	DAPI				FL-1	DAPI	FL-6			DAPI/PacBlue		Channel 2	Cascade Blue®		
Alexa Fluor® 405	401	360, 405, 407	421			DAPI			DAPI	DAPI				FL-1	DAPI	FL-6			DAPI/PacBlue		Channel 2	Alexa Fluor® 405		
Pacific Blue™	410	360, 405, 407	455			DAPI			DAPI	DAPI				FL-1	DAPI	FL-6			DAPI/PacBlue		Channel 2	Pacific Blue™		
AmCyan	458	405, 407, 457	489			DAPI			DAPI	DAPI				FL-1	DAPI	FL-6			DAPI/PacBlue		Channel 2	AmCyan		
Cascade Yellow™	400	405, 407	550			Pac. Orange			Pac. Orange	Pac. Orange				FL-2	Pac. Orange	FL-7			Pac. Orange			Cascade Yellow™		
Pacific Orange™	400	360, 405, 407	551			Pac. Orange			Pac. Orange	Pac. Orange				FL-2	Pac. Orange	FL-7			Pac. Orange			Pacific Orange™		
Alexa Fluor® 488	495	488	519	FL-1	FL-1	FITC	FITC		FITC	FITC	FL-1	FL-1	FL-3	FITC	FL-1	PM-3	FITC	FL-1			Channel 3	Alexa Fluor® 488		
FITC (fluorescein)	493	488	525	FL-1	FL-1	FITC	FITC		FITC	FITC	FL-1	FL-1	FL-3	FITC	FL-1	PM-3	FITC	FL-1			Channel 3	FITC (fluorescein)		
PE (R-Phycoerythrin)	496, 565	488	575	FL-2	FL-2	PE	PE		PE	PE	FL-2	FL-2	FL-4	PE	FL-2	PM-1	PE	FL-2			Channel 4	PE (R-Phycoerythrin)		
Cy3	514	488, 514	566	FL-2	FL-2	PE	PE		PE	PE	FL-2	FL-2	FL-4	PE	FL-2	PM-1	PE	FL-2			Channel 4	Cy3		
PE/Cy5	496, 565	488	670	FL-3	FL-3	PE/Cy5			PE/Cy5	PE/Cy5	FL-4	FL-4	FL-6	PE/Cy5	FL-4	PM-2	PE-Cy5	FL-3			Channel 6	PE/Cy5		
PerCP	482	488	675	FL-3	FL-3		PerCP/Cy5.5		PerCP/Cy5.5	PerCP/Cy5.5	FL-4	FL-4	FL-6	PE/Cy5		PM-2	PE-Cy5	FL-3			Channel 6	PerCP		
PE/Cy5.5	496, 565	488	690	FL-3	FL-3	PerCP/Cy5.5	PerCP/Cy5.5		PerCP/Cy5.5	PerCP/Cy5.5	FL-4	FL-4	FL-6	PE/Cy5	FL-4	PM-2	PE-Cy5.5	FL-3			Channel 6	PE/Cy5.5		
PerCP-Cy5.5	482	488	690	FL-3	FL-3	PerCP/Cy5.5	PerCP/Cy5.5		PerCP/Cy5.5	PerCP/Cy5.5	FL-4	FL-4	FL-6	PE/Cy5		PM-2	PE-Cy5.5	FL-3			Channel 6	PerCP-Cy5.5		
PE/Texas Red®	496, 565	488	613	FL-2		PE			PE	PE	FL-3	FL-3	FL-5	PE/Texas Red	FL-3		PE-TR				Channel 5	PE/Texas Red®		
PE/Cy7	496, 565	488	774	FL-3	FL-3	PE/Cy7	PE/Cy7		PE/Cy7	PE/Cy7		FL-5		PE/Cy7	FL-5	PM-4	PE-Cy7	FL-3				Channel 6	PE/Cy7	
APC (allophycocyanin)	645	595, 633, 635, 647	660		FL-4	APC	APC		APC	APC			FL-4	FL-7	APC	FL-8			APC	FL-4		Channel 6	APC (allophycocyanin)	
Cy5	649	633, 635	666		FL-4	APC			APC	APC			FL-4	FL-7	APC	FL-8			APC	FL-4		Channel 6	Cy5	
Alexa Fluor® 647	650	595, 633, 635, 647	668		FL-4	APC			APC	APC			FL-4	FL-7	APC	FL-8			APC	FL-4		Channel 6	Alexa Fluor® 647	
APC/Cy5.5	650	595, 633, 635, 647	690		FL-3	APC/Cy5.5	APC/Cy5.5		APC/Cy5.5	APC/Cy5.5			FL-4	FL-7	APC/Cy5.5	FL-4			APC-Cy5.5	FL-3		Channel 6	APC/Cy5.5	
Alexa Fluor® 700	696	633, 635	719			APC/Cy5.5			APC/Cy5.5	APC/Cy5.5			FL-4	FL-7	PE/Cy5	FL-4			APC-Cy5.5			Channel 6	Alexa Fluor® 700	
APC/Cy7	650	595, 633, 635, 647	774			APC/Cy7	APC/Cy7		APC/Cy7	APC/Cy7			FL-5	FL-8	APC/Cy7	FL-9			APC-Cy7				Channel 6	APC/Cy7
APC/Alexa Fluor® 750	650	595, 633, 635, 647	774			APC/Cy7	APC/Cy7		APC/Cy7	APC/Cy7			FL-5	FL-8	APC/Cy7	FL-9			APC-Cy7				Channel 6	APC/Alexa Fluor® 750
Viability Probe																							Viability Probe	
DAPI	359	325, 360, 405, 407	461			DAPI			DAPI	DAPI				FL-6	DAPI	FL-6			DAPI/PacBlue			Channel 2	DAPI	
7-AAD (7-aminoactinomycin D)	546	488	647	FL-3	FL-3	PerCP/Cy5.5	PerCP/Cy5.5		PerCP/Cy5.5	PerCP/Cy5.5	FL-3	FL-3	FL-4	PE/Cy5	FL-4	PM-2	PE-Cy5	FL-3				Channel 5	7-AAD (7-aminoactinomycin D)	
PI (Propidium Iodide)	305, 540	325, 360, 488	620	FL-3	FL-3	PerCP/Cy5.5	PerCP/Cy5.5		PerCP/Cy5.5	PerCP/Cy5.5	FL-3	FL-3	FL-4	PE/Cy5	FL-4	PM-1	PE-TR	FL-2				Channel 5	PI (Propidium Iodide)	

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\* These fluorochromes can be used as single color configurations or multi-colored configurations depending on instruments, available lasers and filters, and appropriate color compensation settings.

\*\* These instruments are provided as general information. User must check instrument capability and choose appropriate setting.

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