

Fluorophore selection guide for the Attune® NxT Acoustic Focusing Cytometer



Excitation laser	Emission filter (nm)	Channel	Recommended dyes	Viability dyes (compatible with fixation)	Viability dyes (non-fixed cells)	DNA content/cell cycle dyes (live cells)	DNA content/cell cycle dyes (fixed cells)	Apoptosis dyes	Cell proliferation dyes	ROS detection dyes	Phagocytosis dyes	Fluorescent proteins	Other dyes	
Violet (405 nm)	440/50	VL1	Alexa Fluor® 405 Pacific Blue™	LIVE/DEAD® Fixable Violet	DAPI SYTOX® Blue	Vybrant® DyeCycle™ Violet	FxCycle™ Violet	Annexin V Pacific Blue™ PO-PRO™-1	CellTrace™ Violet Click-iT® Plus Edu Pacific Blue™			Azurite Cerulean eBFP eCFP mTurquoise Sirius	BV421 eFluor® 450 Horizon™ V450 VioBlue®	
	512/25	VL2	Pacific Green™	LIVE/DEAD® Fixable Aqua				Violet Ratiometric Probe (F2N12S)				vGFP	AmCyan BV510 Horizon™ V500 VioGreen™	
	603/48	VL3	Pacific Orange™ Qdot® 605	LIVE/DEAD® Fixable Yellow				Violet Ratiometric Probe (F2N12S)						BV570 BV605 BV650 eFluor® 605NC
	710/50	VL4	Qdot® 705											BV650 BV711
Blue (488 nm)	530/30	BL1	Alexa Fluor® 488 FITC	LIVE/DEAD® Fixable Green	SYTOX® Green	Vybrant® DyeCycle™ Green		Annexin V Alexa Fluor® 488 Annexin V FITC Anti-PARP-FITC APO-BrdU TUNEL- Alexa Fluor® 488 CellEvent® Caspase-3/7 Green MitoProbe™ DiOC ₂ [3] MitoProbe™ JC-1 YO-PRO®-1 Iodide	CellTrace™ CFSE Click-iT® Plus Edu Alexa Fluor® 488	CellROX® Green	pHrodo™ Green <i>E. coli</i> BioParticles® conjugate pHrodo® Green <i>S. aureus</i> BioParticles® conjugate	eGFP Emerald eYFP	BB515	
	590/40	BL2	PE PE-Alexa Fluor® 610 PE-Texas Red®	LIVE/DEAD® Fixable Red	7-AAD PI SYTOX® AADvanced™ SYTOX® Orange		FxCycle™ PI/ RNase	Annexin V PE TMRE TMRM					PE-eFluor® 610	
	695/40	BL3	PE-Alexa Fluor® 700 PE-Cy®5.5 PerCP PerCP-Cy®5.5 Qdot® 705 TRI-COLOR®		7-AAD PI SYTOX® AADvanced™								PE-CF594 PE/Dazzle™ 594 PerCP-eFluor® 710 PerCP-Vio700™ VioGreen™ Vio770™	
Yellow (561 nm)	585/16	YL1	PE		PI SYTOX® Orange	Vybrant® DyeCycle™ Orange		Annexin V Alexa Fluor® 568 Annexin V Alexa Fluor® 594 MitoTracker® Orange CMTMRos MitoTracker® Red CMXRos TMRE TMRM		CellROX® Orange		dTomato mOrange RFP		
	620/15	YL2	PE-Alexa Fluor® 610 PE-Texas Red®		7-AAD PI SYTOX® AADvanced™ SYTOX® Orange		FxCycle™ PI/RNase					DsRed mCherry mKate mStrawberry	ECD PE-CF594 PE-Dazzle™ 594 PE-eFluor® 610 PE-Vio® 610 Texas Red®	
	695/40	YL3	PE-Alexa Fluor® 700 PE-Cy®5.5 Qdot® 705 TRI-COLOR®		7-AAD PI SYTOX® AADvanced™									
	780/60	YL4	PE-Cy®7 Qdot® 800			Vybrant® DyeCycle™ Ruby								PE-Vio770™
Red (638 nm)	670/14	RL1	Alexa Fluor® 647 APC Qdot® 655	LIVE/DEAD® Fixable Far Red	SYTOX® Red		FxCycle™ Far Red	Annexin V Alexa Fluor® 647 Annexin V Alexa Fluor® 680 Annexin V APC MitoProbe™ DiI _C (5) TO-PRO®-3	CellTrace™ Far Red Click-iT® Plus Edu Alexa Fluor® 647	CellROX® Deep Red			eFluor® 660	
	720/30	RL2	Alexa Fluor® 680 Alexa Fluor® 700 APC-Alexa Fluor® 700 Qdot® 705											
	780/60	RL3	APC-Alexa Fluor® 750 APC-Cy®7	LIVE/DEAD® Fixable Near-IR		Vybrant® DyeCycle™ Ruby								APC-H7 APC-eFluor® 750 APC-eFluor® 780 APC-Vio770™

Find out more at lifetechnologies.com/attune

