



# SONY SH800z Fluorochrome Detection Matrix

**Note 1 :** Due to its co-linear lasers configuration you can only use one fluorochrome per channel on the Sony SH800z  
 For example, do not use **Brilliant Violet 570** with **PE** or **mCherry** all read in the FL3 channel although excited by different lasers

Excitation laser (wavelength nm)	Fluorochrome		Channel (optical filter band pass)
	Name	Peak emission wavelength (nm)	
<b>Violet 405 nm</b>	Brilliant violet 421	421	FL1 (450/50)
	Alexa fluor 405	421	FL1 (450/50)
	DAPI	455	FL1 (450/50)
	Pacific Blue	455	FL1 (450/50)
	mCFP	475	FL1 (450/50)
	Hoechst 33342/33258	483	FL1 (450/50)
	AmCyan1	491	FL2 (525/50)
	T-Sapphire	511	FL2 (525/50)
	Qdot 525	525	FL2 (525/50)
	Qdot 545	545	FL2 (525/50)
	Pacific Orange	551	FL2 (525/50)
	Brilliant Violet 570	570	FL3 (600/60)
	Qdot 585	588	FL3 (600/60)
	Qdot 605	603	FL3 (600/60)
	Qdot 655	654	FL4 (665/30)
	Qdot 705	705	FL5 (720/60)
Qdot 800	800	FL6 (785/60)	
<b>Blue 488 nm</b>	EGFP (Enhanced GFP)	508	FL2 (525/50)
	CFSE / CFDA-SE	517	FL2 (525/50)
	FITC	518	FL2 (525/50)
	Alexa Fluor 488	519	FL2 (525/50)
	EYFP (Enhanced YFP)	527	FL2 (525/50)
	mCitrine	529	FL2 (525/50)
	PE (R-Phycoerythrin)	576	FL3 (600/60)
	PE-Texas Red	615	FL3 (600/60)
	PI ( Propidium Iodide)	617	FL3 (600/60)
	7-AAD (7-Aminoactinomycin D)	647	FL4 (665/30)
	PE-Cy5	670	FL4 (665/30)
	PerCP ( Peridinin Chlorophyll protein)	675	FL4 (665/30)
	PE-Cy5.5	695	FL5 (720/60)
	PerCP-Cy5.5	695	FL5 (720/60)
	PerCP-eFluor 710	710	FL5 (720/60)
PE-Cy7	779	FL6 (785/60)	
<b>Yellow-Green 561 nm</b>	mOrange	562	FL3 (600/60)
	DsRed-Monomer	586	FL3 (600/60)
	tdTomato	581	FL3 (600/60)
	mCherry	610	FL3 (600/60)
	mPlum	649	FL4 (665/30)
<b>Red 638 nm</b>	APC (Allophycocyanin)	660	FL4 (665/30)
	Cy5	666	FL4 (665/30)
	Alexa Fluor 647	668	FL4 (665/30)
	APC-Cy5.5	695	FL5 (720/60)
	Alexa Fluor 700	719	FL5 (720/60)
	APC-Cy7	779	FL6 (785/60)
	APC-Alexa Fluor 750	775	FL6 (785/60)