

Materials List for:

Harnessing the DNA Dye-triggered Side Population Phenotype to Detect and Purify Cancer Stem Cells from Biological Samples

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Materials

Name	Company	Catalog Number	Comments
Vybrant DyeCycle Violet	Thermo Fisher Scientific	V35003	Ready to use
Verapamil hydrochloride	Sigma-Aldrich	V4629	Dissolve in ethanol
Fumitremogin C	Sigma-Aldrich	F9054	Dissolve in DMSO
7-AAD (or propidium iodide - PI)	BioLegend	420403	Ready to use
Standard cell culture reagents (e.g., medium, FBS, L-glutamine, antibiotics, PBS, trypsin-EDTA, etc.)	Different suppliers		
Sample/cells of interest (e.g., human or murine cancer cell line, human or murine tumor tissue)	Different suppliers		
Flow cytometric instrument (FACS; analyzer or cell sorter)	Different suppliers		Violet laser source required
FACS tubes (round-bottom)	Different suppliers		Tubes with cap recommended
70 µm cut-off strainers	Different suppliers		Optional but recommended
Digestion enzyme mix (e.g., collagenase/dispase/Dnase)	Different suppliers		Only relevant for tissue dissociation
Fluorochrome-conjugated antibodies against surface markers of interest	Different suppliers		Optional
ALDEFLUOR Kit	STEMCELL Technologies	01700	Optional