

Materials List for:

# Flow Cytometric Detection of Newly-Formed Breast Cancer Stem Cell-like Cells After Apoptosis Reversal

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URL: <https://www.jove.com/video/58642>

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## Materials

Name	Company	Catalog Number	Comments
MCF-7	American Type Culture Collection (ATCC)	HTB-22	
MDA-MB-231	American Type Culture Collection (ATCC)	HTB-26	
T47D	American Type Culture Collection (ATCC)	HTB-133	
<b>Reagent</b>			
0.05% trypsin-EDTA	Invitrogen	25300054	
0.25% trypsin-EDTA	Invitrogen	25200072	
Alexa Fluor 680 annexin V conjugate	Invitrogen	A35109	
bovine serum albumin	USB	9048-46-8	
CaCl <sub>2</sub> · 2H <sub>2</sub> O	Sigma-Aldrich	C-5080	
CellEvent caspase-3/7 green fluorescent dye	Invitrogen	C10423	
dimethyl sulfoxide	Sigma-Aldrich	D2650	
Fc block	Miltenyi Biotec	130-059-901	
fetal bovine serum	Invitrogen	16000044	heat-inactivated
HEPES	USB	16926	
Hoechst 33342	Invitrogen	H3570	
L-glutamine	Invitrogen	25030081	
Mitotracker Red CMXRos	Invitrogen	M7512	
monoclonal antibodies against human CD24	BD Biosciences	555428	PE Clone:ML5 Lot:5049759 RRID:AB_395822
monoclonal antibodies against human CD44	BD Biosciences	560531	PERCP-CY5.5 Clone:G44-26 Lot:7230770 RRID:AB_1727485
NaCl	Sigma-Aldrich	31434	
paclitaxel	Sigma-Aldrich	T7402	
PE Mouse IgG2a, κ Isotype Control	BD Biosciences	554648	Clone:G155-178 (RUO) RRID:AB_395491
Penicillin-Streptomycin	Invitrogen	15070-063	

PerCP-Cy5.5 Mouse IgG2b, $\kappa$ Isotype Control	BD Biosciences	558304	Clone:27-35 RRID:AB_647257
phosphate buffered saline	Thermo Fisher Scientific	21600010	
propidium iodide	Invitrogen	P1304MP	
Roswell Park Memorial Institute 1640 medium	Invitrogen	11835055	phenol red-free
sodium azide	Sigma-Aldrich	S2002	
staurosporine	Sigma-Aldrich	S4400	
<b>Equipment</b>			
100 mm culture dish	Greiner Bio-One	664160	
12-well tissue culture plates	Thermo Fisher Scientific	150628	
Cell Strainer 40- $\mu$ m nylon mesh	BD Biosciences	08-771-1	
FACSuite software bundle v1.0	BD Biosciences	651360	
FACSVerse	BD Biosciences	651155	
FluoView FV1000 confocal microscope	Olympus	IX81	60X objective
FV10-ASW Viewer software Ver.4.2b	Olympus	-	
round-bottom polystyrene 12 $\times$ 75 mm tubes	BD Biosciences	352003	
S3e sorter	Bio-Rad	1451006	