

Materials List for:

# Radiosensitivity of Cancer Stem Cells in Lung Cancer Cell Lines

Xin Sui<sup>1</sup>, Jian-Hao Geng<sup>1</sup>, Hui-Ming Yu<sup>1</sup>, Yong-Heng Li<sup>1</sup>, Wei-Hu Wang<sup>1</sup>

<sup>1</sup>Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education/Beijing), Department of Radiation Oncology, Peking University Cancer Hospital and Institute

Correspondence to: Wei-Hu Wang at [wangweihu88@163.com](mailto:wangweihu88@163.com)

URL: <https://www.jove.com/video/60046>

DOI: [doi:10.3791/60046](https://doi.org/10.3791/60046)

## Materials

Name	Company	Catalog Number	Comments
0.5% Trypsin-EDTA (10X), no phenol red	Thermo Fisher	15400054	Dilute in to 0.05% (1X) with autoclaved distilled water
1B50-1			This antibody is produced and friendly supplied by Laboratory of Carcinogenesis and Translational Research (Ministry of Education/Beijing), Department of Cell Biology, Peking University Cancer Hospital and Institute. See reference 10. Alternatively, commercial antibody of calcium channel $\alpha 2\delta 1$ subunit can be used (ABCAM, ab2864) (Yu, et al., Am J Cancer Res, 2016; 6(9): 2088-2097)
4% formaldehyde solution	Solarbio	G2160	
A549	ATCC		RRID: CVCL_0023
B27	Thermo Fisher	17504044	
Biological Safety Cabinet	Thermo Fisher	1336	
Centrifuge	Eppendorf	5910R	
DMEM/F-12	Thermo Fisher	12500062	
EGF Recombinant Human Protein	Thermo Fisher	PHG0311	
Fetal bovine serum	Thermo Fisher	16140071	
FGF-Basic (AA 1-155) Recombinant Human Protein	Thermo Fisher	PHG0261	
Flow cytometer/cell sorter	BD	FACSARIA III	
H1299	ATCC		RRID: CVCL_0060
H1975	ATCC		RRID: CVCL_1511
Lightning-Link Fluorescein Kit	Innova Biosciences	310-0010	
linear accelerator	VARIAN	CLINAC 600C/D	
Methyl cellulose	Sigma Aldrich	M7027	
Penicillin-Streptomycin, Liquid	Thermo Fisher	15140122	
Phosphate buffered saline	Solarbio	P1020	
RPMI-1640	Thermo Fisher	11875093	
SYBRGREEN	TOYOBO	QPK-201	
TRIzol	Thermo Fisher	15596026	
Violet crystal staining solution	Solarbio	G1062	