

Materials List for

# Visualizing DNA Damage Repair Proteins in Patient-Derived Ovarian Cancer Organoids via Immunofluorescence Assays

Lillian van

Biljon<sup>1</sup>, Bisiayo Fashemi<sup>1</sup>, Jeimmy Rodriguez<sup>1</sup>, Olivia Graham<sup>1</sup>, Amanda Compadre<sup>1</sup>, Katherine Fuh<sup>1,2</sup>, Dineo Khabele<sup>1</sup>, Mary Mullen<sup>1</sup>

<sup>1</sup>Washington University in St. Louis <sup>2</sup>University of California San Francisco

## Corresponding Author

Mary Mullen

marymullen@wustl.edu

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jove.com/video/64881

## Materials

Name	Company	Catalog Number	Comments
1x phosphate buffered saline with calcium and magnesium (PBS++)	Sigma	14-040-133	
1x phosphate buffered saline without calcium and magnesium (PBS)	Fisher Scientific	ICN1860454	
Ant-53BP1 Antibody	BD Biosciences	612522	diluted to 1:500 in staining buffer
Ant-Geminin Antibody	Abcam	ab104306	diluted to 1:200 in staining buffer
Anti-Geminin Antibody	ProteinTech	10802-1-AP	diluted to 1:400 in staining buffer
Anti-RAD51 Antibody	Abcam	ab133534	diluted to 1:1000 in staining buffer
Anti-γH2AX Antibody	Millipore-Sigma	05-636	diluted to 1:500 in staining buffer
Ant-phospho-RPA32 (S4/S8) Antibody	Bethyl Laboratories	A300-245A-M	diluted to 1:200 in staining buffer
Bovine Serum Albumin (BSA)	Fisher Scientific	BP1605 100	
Centrifuge; Sorvall St 16R Centrifuge	Thermo Scientific	75004240	
Confocal Microscope, Leica SP5 confocal system DMI4000	Leica	389584	
Conical Tubes, 15 mL	Corning	14-959-53A	
Countess 3 FL Automated Cell Counter (Cell Counting Machine)	Thermo Scientific	AMQAF2000	
Countess Cell Counting Chamber Slides	Thermo Scientific	C10228	
Cover Slip	LA Colors		Any clear nail polish will suffice
Cultrex RGF Basement Membrane Extract, Type 2	R&D Systems	3533-010-02	Could probably use Matrigel or other BME Matrix
DAPI	Thermo Scientific	R37606	NucBlue Fixed Cell ReadyProbes Reagent, Diluted in 1x PBS
Glycine	Fisher Scientific	NC0756056	

JCountPro	JCountPro		For access to the software, Email: jcountpro@gmail.com
Microcentrifuge Tubes	Fisher Scientific	07-000-243	
Nail Polish	StatLab	SL102450	
Paraformaldehyde (PFA), 2%	Electron Microscopy Sciences	157-4	Dilute to 4% PFA in PBS++ to obtain 2% PFA
Permeabilization Buffer	Made in Lab		0.2% X-100 Triton in PBS++
Pipette	Rainin	17014382	
Pipette Tips	Rainin	17014967	
ProLong Gold Antifade Mountant	Thermo Scientific	P36930	
Staining Buffer	Made in Lab		0.5% BSA, 0.15% Glycine, 0.1% X-100 Triton in PBS++
Thermo Scientific Nunc Lab-Tek II Chamber Slide System	Thermo Scientific	12-565-8	
Triton X-100	Sigma-Aldrich	11332481001	
Trypan Blue Solution, 0.4%	Thermo Scientific	15250061	
TrypLE Express	Invitrogen	12604013	animal origin-free, recombinant enzyme
X-RAD 320 Biological Irradiator	Precision X-Ray Irradiation	X-RAD320	