

Materials List for:

Investigation of Protein Recruitment to DNA Lesions Using 405 Nm Laser Micro-irradiation

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URL: <https://www.jove.com/video/57410>

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Materials

Name	Company	Catalog Number	Comments
Olympus FLUOVIEW FV3000 resonant laser scanning confocal microscope	Olympus		
FluoView FV3000 software (version 2.1)	Olympus		
405 nm laser	Coherent		Radiation source
Microscope incubator AIO-UNO-OLYUS-1	Okolab	OKO-UNO-1	
60X /1.4 Objective	Olympus		Oil immersion objective
8-well culture slides on coverglass (X-well)	Sarstedt	94.6190.802	
U2OS osteosarcoma human cell line	ATCC	HTB-96	Stable cell lines
4',6-Diamidino-2-Phenylindole (DAPI)	ThermoFisher	D1306	Caution toxic
5-bromo-2'-deoxyuridine (BrdU)	Sigma-Aldrich	59-14-3	
Paraformaldehyde	Sigma-Aldrich	30525-89-4	Caution toxic
Bisbenzimidazole H 33342 (Hoechst 33342)	ThermoFisher	62249	
Bovine serum albumin (BSA)	ThermoFisher	BP1600-100	
Trypsin EDTA 0.1%	ThermoFisher	15400-054	
Triton X-100	BioShop	TRX777.100	
Tween-20	ThermoFisher	BP337-500	
Sucrose	BioShop	SUC507	
JetPRIME transfection reagent	Polyplus	114-07	
ProLong Diamond Antifade mountant with DAPI	ThermoFisher	P36962	
DMEM 1X, + phenol red	Wisent	319-005-CL	
DMEM 1X, - phenol red	Wisent	319-051-CL	
Fetal bovine serum (FBS)	Wisent	080-150	
Mouse anti-RPA32 antibody	Abcam	ab2175	1:500 for IF
Rabbit anti-γ-H2A.X antibody	Cell Signaling	9718S	1:500 for IF
Rabbit Anti-53BP1 antibody	Cell Signaling	4937S	1:500 for IF
Rabbit Anti-PRP19 antibody	Abcam	ab27692	1:500 for IF
Goat anti-rabbit IgG Alexa Fluor 647	Cell Signaling	4414S	1:250 for IF

Goat anti-mouse IgG Alexa Fluor 488	Cell Signaling	4408S	1:250 for IF
Fiji image analysis open-source software			https://fiji.sc
1918-K Power meter with a 918D-SL-0D3 sensor	Newport		