

Materials List for:

Application of Laser Micro-irradiation for Examination of Single and Double Strand Break Repair in Mammalian Cells

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URL: <https://www.jove.com/video/56265>

DOI: [doi:10.3791/56265](https://doi.org/10.3791/56265)

Materials

Name	Company	Catalog Number	Comments
Nikon A1rsi laser scanning confocal microscope	Nikon		
NIS Elements software	Nikon		
355 nm laser	PicoQuant VisUV		Radiation source
Galvanometer photoactivation miniscanner	Bruker		
Microscope slide photodiode power sensor	THORLabs	S170C	
Fiber photodiode power sensor	THORLabs	S150C	
Digital handheld optical power and energy meter	THORLabs	PM100D	
CHO-K1			From Dr. Samuel H. Wilson, NIEHS
Minimal essential media	Hyclone	SH3026501	
Fetal bovine serum	Atlanta biologicals	S11550	
XRCC1-GFP	Origene	RG204952	
Jetprime	Polyplus transfection	11407	
Geneticin	ThermoFisher	10131035	
4 chambered coverglass	ThermoFisher	155382	
8 chambered coverglass	ThermoFisher	155409	
Anti 53BP-1	Novus	NB100304	
Anti-phospho-histone H2AX	Millipore	05-636-I	
Anti cyclobutane pyrimidine dimer	Cosmo Bio clone	CAC-NM-DND-001	
Anti 8-oxo-2'-deoxyguanosine	Trevigen	4354-MC-050	
Alexa 488 goat anti-mouse	ThermoFisher	A11029	
Alexa 546 goat anti-rabbit	ThermoFisher	A11010	
4',6-Diamidino-2-Phenylindole (DAPI)	ThermoFisher	R37606	Caution toxic!
Phosphate buffered saline	ThermoFisher	0780	
Normal goat serum	ThermoFisher	31873	
Bovine serum albumin (BSA)	Jackson Immuno Research	001-000-162	
37% Formaldehyde	ThermoFisher	9311	Caution toxic!
Ethanol	Decon Labs	2716	
Methanol	VWR	BDH1135	Caution toxic!
HCl	Fisher	SA49	
Sodium azide	Sigma-Aldrich	S2002	Caution toxic!

Tris Hydrochloride	Amresco	O234	
Triton X-100	Sigma-Aldrich	T8787	