

# Visualization of DNA Repair Proteins Interaction by Immunofluorescence

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## Materials

Name	Company	Catalog Number	Comments
16% (v/v) paraformaldehyde (PFA) aqueous solution	Electron Microscopy Sciences	15710	Microscopy quality of the PFA ensures best images. If using "home-made PFA", filter prior to use.
Bovine serum albumin (BSA)	Sigma-Aldrich	A3059	Heat-shock fraction is recommended, to avoid precipitation/background.
Coverglass #1, 18 mm round (coverslips)	Neuvitro	NC0308920	Coverslips need to be cleaned and sterilized prior using, with HCl or ethanol.
DMEM, High Glucose [(+) 4.5 g/L D-Glucose, (+) L-Glutamine, (-) Sodium Pyruvate]	Gibco	11965118	Adjust the growing media to the needs of cell line used.
DPBS, no calcium, no magnesium	Gibco	14190144	PBS for tissue culture.
Ethylene glycol-bis(β-aminoethyl ether)-N,N,N',N'-tetraacetic acid (EGTA)	Research Products International	E57060	Nuclear extraction buffer.
Fetal Bovine Serum (FBS)	Life Technologies	104370028	The quality of FBS can be assessed by testing gH2AX foci formation. If traces of genotoxic endotoxin are present in the batch, gH2AX will be positive in the absence of stress.
Magnesium chloride (MgCl <sub>2</sub> )	Research Products International	M24000	Nuclear extraction buffer.
Piperazine-N,N'-bis(2-ethanesulfonic acid) (PIPES)	Research Products International	P40150	Nuclear extraction buffer.
SlowFade Diamond Antifade Mountant with DAPI	Invitrogen	S36973	300 nM DAPI with VECTASHIELD Antifade Mounting Medium can be used instead.
Sodium chloride (NaCl)	Research Products International	S23020	Nuclear extraction buffer.
Sucrose	Research Products International	S24060	Nuclear extraction buffer.
Superfrost Plus Microscope Slides	Fisherbrand	1255015	Polysine Slides can be used instead.
TC-Treated Multiple Well Plates, size 12 wells	Costar	3513	Seeding on coverslips is done in 12-wells plate.
Triton X-100	AmericanBio	AB02025	Nuclear extraction buffer.

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TrypLE Express Enzyme (1X), No Phenol Red	Gibco	12604021	Trypsin-EDTA can be used instead.
Trypsin-EDTA (0.5%), No Phenol Red	Gibco	15400054	TrypLE can be used instead.