

Materials List for:

Combining Mitotic Cell Synchronization and High Resolution Confocal Microscopy to Study the Role of Multifunctional Cell Cycle Proteins During Mitosis

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Materials

Name	Company	Catalog Number	Comments
DMEM (1x)	Life Technologies	11965-092	Store at 4 °C
DPBS (1x)	Life Technologies	14190-144	Store at 4 °C
Leibovitz's (1x) L-15 medium	Life Technologies	21083-027	Store at 4 °C
Serum reduced medium (Opti-MEM)	Life Technologies	319-85-070	Store at 4 °C
Penicillin and streptomycin	Life Technologies	15070-063 (Pen Strep)	1:1,000 dilution
Dharmafect2	GE Dharmacon	T-2002-02	Store at 4 °C
Thymidine	MP Biomedicals LLC	103056	Dissolved in sterile distilled water
Cdt1 siRNA	Life Technologies		Ref 10
Hec1 siRNA	Life Technologies		Ref 13
HeLa cells expressing GFP-H2B			
HeLa cells expressing GFP- α -tubulin and mCherry H2B	Generous gift from Dr. Kozo Tanaka of Tohoku university, Japan		
Formaldehyde solution	Sigma-Aldrich Corporation	F8775	Toxic, needs caution
DAPI	Sigma-Aldrich Corporation	D9542	Toxic, needs caution
Mouse anti- α -tubulin	Santa Cruz Biotechnology	Sc32293	1:1,000 dilution
Rabbit ant-Zwint1	Bethyl	A300-781A	1:400 dilution
Mouse anti-phospho- γ H2AX (Ser139)	Upstate Biotechnology	05-626, clone JBW301	1:300 dilution
Alexa 488	Jackson ImmunoResearch		1:250 dilution
Rodamine Red-X	Jackson ImmunoResearch		1:250 dilution
BioLite 6 well multidish	Thermo Fisher Scientific	130184	
35 mm Glass bottom dish	MatTek Corporation	P35GCOL-1.5-14-C	
Nikon Eclipse TiE inverted microscope	Nikon Instruments		
Spinning disc for confocal	Yokagawa	CSU-X1	
Ultra 888 EM-CCD Camera	Andor	iXon Ultra EMCCD	
4 wave length laser	Agilent Technologies		
Incubation System for Microscopes	Tokai Hit	TIZB	
NIS-elements software	Nikon Instruments		