

Intestinal Epithelial Regeneration in Response to Ionizing Irradiation

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Materials

Name	Company	Catalog Number	Comments
1 mL syringe	BD	309659	-
16G Reusable Small Animal Feeding Needles: Straight	VWR	20068-630	-
27G x 1/2" needle	BD	305109	-
28G x 1/2" Monoject 1mL insulin syringe	Covidien	1188128012	-
5-Ethynyl-2'-deoxyuridine (EdU)	Santa Cruz Biotechnology	sc284628A	10 mg/mL in sterile DMSO:water (1:4 v/v), aliquot and store in -20°C
Azer Scientific 10% Neutral Buffered Formalin	Fisher Scientific	22-026-213	-
B6.129X1-Gt(ROSA)26Sortm1(EYFP)Cos/J	The Jackson Laboratory	Strain #:006148	
B6;129-Bmi1tm1(cre/ERT)Mrc/J	The Jackson Laboratory	Strain #:010531	
Bovine Serum Albumin Fraction V, heat shock	Millipore-Sigma	3116956001	
Chicken anti-GFP	Aves	GFP-1020	
Click-IT plus EdU Alexa Fluor 555 imaging kit, Invitrogen	Thermo Fisher Scientific	C10638	-
Corn oil	Millipore-Sigma	C8267	-
Decloaking Chamber	Biocare Medical	DC2012	-
Dimethyl sulfoxide (DMSO)	Fisher BioReagents	BP231-100	light sensitive
DNase-free proteinase K	Invitrogen	C10618H	diluted 25x in DPBS
Donkey anti-chicken AF647	Jackson ImmunoResearch	703-605-155	
DPBS	Fisher Scientific	21-031-CV	-
Eosin	Fisher Scientific	S176	
Fluorescence Microscope Nikon Eclipse 90i Bright and fluorescent light, with objectives: 10X, 20X	Nikon		
Fluoromount Aqueous Mounting Medium	Millipore-Sigma	F4680-25ML	

Gamma Cell 40 Exactor	Best Theratronics Ltd.	-	0.759 Gy min ⁻¹
Goat anti-rabbit AF488	Jackson ImmunoResearch	111-545-144	
Hematoxylin Solution, Gill No. 3	Millipore-Sigma	GHS332	
HM 325 Rotary Microtome from Thermo Scientific	Fisher Scientific	23-900-668	
Hoechst 33258, Pentahydrate (bis-Benzimidazole)	Thermo Fisher Scientific	H3569	dilution 1:1000
Hydrogen Peroxide Solution, ACS, 29-32%, Spectrum Chemical	Fisher Scientific	18-603-252	-
In Situ Cell Death Detection Kit, Fluorescein (Roche)	Millipore-Sigma	11684795910	
Liquid Blocker Super PAP PEN, Mini	Fisher Scientific	DAI-PAP-S-M	
Lithium Carbonate (Powder/Certified ACS), Fisher Chemical	Fisher Scientific	L119-500	0.5g/1L dH ₂ O
Luer-Lok Syringe sterile, single use, 10 mL	VWR	89215-218	-
Methanol	VWR	BDH1135-4LP	
Pharmco Products Ethyl alcohol, 200 PROOF	Fisher Scientific	NC1675398	-
Pharmco-Aaper 281000ACSCSLT Acetic Acid ACS Grade	Capitol Scientific	AAP-281000ACSCSLT	-
Rabbit anti-Ki67	BioCare Medical	CRM325	
Richard-Allan Scientific Cytoseal XYL Mounting Medium	Fisher Scientific	22-050-262	
Scientific Industries Incubator-Genie for baking slides at 65 degree	Fisher Scientific	50-728-103	
Sodium Citrate Dihydrate	Fisher Scientific	S279-500	
Stainless Steel Dissecting Kit	VWR	25640-002	
Superfrost Plus micro slides [size: 25 x 75 x 1 mm]	VWR	48311-703	
Tamoxifen	Millipore-Sigma	T5648	30 mg/mL in sterile corn oil, preferably fresh or short-term storage in -20°C, light sensitive
Tissue-Tek 24-Slide Holders with Detachable Handle	Sakura	4465	
Tissue-Tek Accu-Edge Low Profile Blades	Sakura	4689	
Tissue-Tek Manual Slide Staining Set	Sakura	4451	
Tissue-Tek Staining Dish, Green with Lid	Sakura	4456	
Tissue-Tek Staining Dish, White with Lid	Sakura	4457	
Tween 20	Millipore-Sigma	P7949	
Uniset Processing Cassettes	VWR	87002-292	-
VWR Micro Cover Glasses	VWR	48393-081	
Xylene	Fisher Scientific	X5P-1GAL	