

Materials List for:

Enrichment of Pachytene Spermatocytes and Spermatids from Mouse Testes Using Standard Laboratory Equipment

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Materials

Name	Company	Catalog Number	Comments
4% Paraformaldehyde	Preference of researcher		
AlexaFluor488 donkey anti-rabbit IgG	Thermo Fisher Scientific	A-21206	
AlexaFluor647 donkey anti-mouse IgG	Thermo Fisher Scientific	A-31571	
Bovine Serum Albumin (BSA)	Sigma	A9647	
CaCl ₂ ·2H ₂ O	Preference of researcher		
Collagenase IV	Sigma	C5138	
Complete protease inhibitor cocktail	Roche	11836145001	
DDX4 antibody	Abcam	ab13840	
Dextrose	Preference of researcher		
DNase I	Worthington	LS006355	
GAPDH	HyTest	5G4	
HRP-linked anti-mouse IgG	GE Healthcare Life Sciences	NA931	
HRP-linked anti-rabbit IgG	GE Healthcare Life Sciences	NA934	
KCl	Preference of researcher		
KH ₂ PO ₄	Preference of researcher		
MgSO ₄ ·7H ₂ O	Preference of researcher		
NaCl	Preference of researcher		
NaHCO ₃	Preference of researcher		
NH ₄ Cl	Preference of researcher		
Pierce BCA protein assay kit	Life Technologies	23227	
PIWIL1	Cell Signaling Technology	G82	
PIWIL2, clone 13E-3	Millipore	MABE363	
Prolong Diamond Antidafate Mountant with DAPI	Thermo Fisher Scientific	P36962	for Alexa Fluor immunostainings
Rabbit IgG	Neomarkers	NC-100-P	
Rhodamine-labelled Peanut agglutinin (PNA)	Vector Laboratories	RL-1072	
RIPA buffer			50 mM Tris-HCl, pH 7.5, 1% NP-40, 0.5% w/v sodium deoxycholate, 0.05% w/v SDS, 1 mM EDTA, 150 mM NaCl, 1x protease inhibitor cocktail, 0.2 mM PMSF and 1 mM DTT

TRIsure	Bioline	BIO-38033	
Triton X-100	Preference of researcher		nonionic surfactant
Trypsin	Worthington	LS003703	
VECTASHIELD Antifade Mounting Medium with DAPI	Vector Laboratories	H-1200	for standard DAPI analysis of cell fractions
γH2AX antibody	Millipore	05-636	
0.22 μm filter	Sartorius	Sartolab BT 180C6	or equivalent
1 mL mechanical pipette	Preference of researcher		
1.5 mL or 2 mL tubes	Preference of researcher		
40 μm cell sieves for 50 mL tubes	Greiner Bio-One	542040	or equivalent cell strainer
5 mL serological pipettes	Sarstedt	86.1254.001	or equivalent
50 mL conical tubes	Preference of researcher		
6 cm Petri dishes	Preference of researcher		
Cell culture incubator	Preference of researcher		
Centrifuge for 50 mL tubes	Preference of researcher		
Grease pen for microscopy glass slides	Preference of researcher		
HulaMixer Sample Mixer	Thermo Fisher Scientific	15920D	or equivalent cell rotator
Microdissection forceps	Preference of researcher		
Microdissection scissors	Preference of researcher		
Microscopy glass slides and coverslips	Preference of researcher		
Nanodrop 1000	Thermo Scientific		
Pipetboy Acu 2	Integra	155 000	or equivalent pipette controller
Refrigerated centrifuge for 1.5 mL tubes	Preference of researcher		
Tips for 1 mL mechanical pipette	Preference of researcher		
Water bath	Preference of researcher		
Widefield fluorescence microscope	Preference of researcher		