

Materials List for:

# Flow-sorting and Exome Sequencing of the Reed-Sternberg Cells of Classical Hodgkin Lymphoma

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## Materials

Name	Company	Catalog Number	Comments
Petri or Cell Culture Dish (sterile)			
RPML-1640 Media	Roswell Park Memorial Institute		
Fetal Calf Serum (FCS), (heat inactivated)			
Freezing Media (RPML, 20% FCS, 10% dimethylsulfoxide (DMSO))-make fresh and keep sterile			
RPML with 2% FCS (make fresh or store for up to 1 month)			
scalpel with fresh blade			
10 mL syringe (no needle)			
Cryogenic vials			
50 mL conical centrifuge tubes, force			
Centrifuge			capable of handling 50 mL conical centrifuge tubes and providing 400g
Hepes buffer(1 M, cell culture grade)			
phosphate buffered saline (PBS)			
Pluoronic-F68	Thermo-Fisher	24040-032	
DNAase-I	Sigma-Aldrich, St. Louis, MO	D4527-10KU	store as 5 mg/mL in RPML in -200 °C
Bovine Serum Albumin (BSA)			
Sort Media (PBS + 2% BSA + 25 mM HEPES + Pluoronic –F68 (1x))			
CD64-FITC (22)	Beckman Coulter, Miami, FL		20 µL suggested starting volume; Titering is suggested
CD30-PE (BerH83)	BD Biosciences, San Jose, CA		20 µL suggested starting volume; Titering is suggested
CD5-ECD (BL1a)	Beckman Coulter, Miami, FL		10 µL suggested starting volume; Titering is suggested
CD40-PerCP-eFluor 710 (1C10)	Ebiosciences, San Diego, CA		5 µL suggested starting volume; Titering is suggested

CD20-PC7 (B9E9)	Beckman Coulter, Miami, FL		10 µL suggested starting volume; Titering is suggested
CD15-APC (HI98)	BD Biosciences, San Jose, CA		20 µL suggested starting volume; Titering is suggested
CD45 APC-H7 (2D1)	BD Biosciences, San Jose, CA		Can be substituted with 10 µL suggested volume of CD45-Krome Orange (J.33, Beckman Coulter); Titering is suggested
CD95-Pacific Blue (DX2)	Life Technologies, Grand Island, NY		5 µL suggested starting volume; Titering is suggested
CD2 (5 µg; clone RPA-2.10)	Biolegend, San Diego, CA		For optional protocol; Titering is suggested
CD54 (10 µg; clone 84H10)	Serotec, Oxford, United Kingdom		For optional protocol; Titering is suggested
CD58 (10 µg; clone TS2/9)	eBioscience, San Diego, CA		For optional protocol; Titering is suggested
LFA-1 (12 µg; clone MHM23)	Novus Biologicals, Littleton, CO		For optional protocol; Titering is suggested
BD CS&T Beads	BD Biosciences, San Jose, CA		
BD Accudrop Beads	BD Biosciences, San Jose, CA		
BC Versa Comp antibody capture beads	Beckman Coulter, Miami, FL		Compensation Beads
BD-FACS ARIA special research order instrument using 5 lasers	BD Biosciences, San Jose, CA		any BD-FACS aria with capabilities to detect the fluorochromes in the antibody panel should be sufficient
Wizard	Promega	A2360	
10 mM Tris-Cl buffer	NA		
Qubit dsDNA HS Assay kit	Life Technologies, Carlsbad, CA		
S2 Sonicator	Covaris, Woburn, MA		Alternatives may be substituted
microTUBE	Covaris, Woburn, MA		
Low-Throughput Library Preparation Kit	Kapa Biosystems, Wilmington, MA	KK8221	
Sybr Green	Sigma-Aldrich, St. Louis, MO	S9430	
Agencourt AMPure XP Beads	Beckman Coulter, Miami, FL		
Bioanalyzer	Agilent Technologies, Santa Clara, CA		
SeqCap EZ Exome v.3.0	Roche Nimblegen	6465684001	
HiSeq	Illumina		
TruSeq-style Universal adapter	Integrated DNA Technologies (IDT), Coralville, Iowa		HPLC purification; AATGATACGGCGACCACCGAGATCTACACT
TruSeq-style index adapter	Integrated DNA Technologies (IDT), Coralville, Iowa		HPLC purification; /5Phos/ GATCGGAAGAGCACACGTCTGAACTCCAG
TruSeq-style PCR primer 1	Integrated DNA Technologies (IDT), Coralville, Iowa		AATGATACGGCGACCACCGAGA
TruSeq-style PCR primer 2	Integrated DNA Technologies (IDT), Coralville, Iowa		CAAGCAGAAGACGGCATACGAG
Nuclease Free Duplex Buffer	Integrated DNA Technologies (IDT), Coralville, Iowa		
BD FACSDIVA software	BD Biosciences, San Jose, CA		
BD Falcon Tubes	BD Biosciences, San Jose, CA		
BD Flow Tubes	BD Biosciences, San Jose, CA		