

Materials List for:

CD4+ T-Lymphocyte Capture using a Disposable Microfluidic Chip for HIV

Sang Jun Moon¹, Richard Lin², Utkan Demirci¹

¹Bio-Acoustic-MEMS Laboratory in Medicine (BAMM), Brigham and Women's Hospital


²MIT - Massachusetts Institute of Technology

Correspondence to: Richard Lin at rlin@mit.edu, Utkan Demirci at udemirci@rics.bwh.harvard.edu

URL: <http://www.jove.com/video/640>

DOI: [doi:10.3791/640](https://doi.org/10.3791/640)

Materials

Name	Type	Company	Catalog Number	Comments
PDMS microchannel				fabricated by SU-8 mold
Blood				Donated blood from normal human subject. Mass General Hospital, 10 X high density WBC or Brigham and Women's Hospital.
PBS	Buffer	Invitrogen	14190	1x Dulbecco's Phosphated Buffered Saline.
FACS lysing solution		BD Biosciences	349202	Diluted to 10% from stock solution with PBS.
Anti-CD4+ biotinlayted Ab		Beckman Coulter Inc.	IM0704	Surface prepared with Anti-CD4+ biotinlayted Ab, diluted to 10% from stock solution with PBS/BSA after mixing with 0.2mg stock and 1ml deionized water.
goat anti-hCD3delta	pAB	Santa Cruz Biotechnology, Inc.	 sc-1128	diluted to 10% from stock solution with PBS
rabbit anti-goat IgG PE		Santa Cruz Biotechnology, Inc.	sc-3755	secondary Ab fro anti-CD3 Ab, diluted to 10% from stock solution with PBS
anti-human CD4+		BD Biosciences	557695	Alexa Fluor 488 labeled, diluted to 20% from stock solution with PBS.
DAPI		Invitrogen	D1306	4',6-dianidino-2-phenylindole, dihydrochloride solution, diluted to 0.2% from stock solution with PBS.