

Materials List for:

# Assessment of the Synaptic Interface of Primary Human T Cells from Peripheral Blood and Lymphoid Tissue

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URL: <https://www.jove.com/video/58143>

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## Materials

Name	Company	Catalog Number	Comments
CD4 T cell isolation kit, human	Miltenyl Biotec	130-096-533	
CD8 T cells Isolation Kit, human	Miltenyl Biotec	130-096-495	
DOPC	Avanti Polar Lipids	850375C	
DOGS NTA	Avanti Polar Lipids	790528C	
Biotinyl Cap PE	Avanti Polar Lipids	870273C	
Human Serum Albumin	Octapharma USA	NDC 68982-643-01	
sticky-Slide VI 0.4	ibidi	80608	
Coverslips for sticky-Slides	ibidi	10812	
Biotech FCS2 Chamber	Biotech	060319-2-03	
anti-CD3 antibody	Thermo Fisher Scientific	16-0037-81	OKT3 clone, hybridoma cells are available from ATCC
anti- CD28 antibody	Genetex	GTX14664	9.3 clone
Casein	Sigma	C5890	
Biotin-PEO4-NHS	Thermo Fisher Scientific	21329	
DMSO	Sigma	D2650-5	
Alexa Fluor 488 protein labeling kit with column for labeled protein purification	Thermo Fisher Scientific	A10235	
Alexa Fluor 568 protein labeling kit with column for labeled protein purification	Thermo Fisher Scientific	A10238	
Amersham Cy5 NHS Ester	GE Life Science	PA15101	
pMT/V5-His A, B, C Drosophila Expression Vectors	Thermo Fisher Scientific	V412020	
pcopneo, G418 Drosophila expression vector for positive selection	ATCC	37409	
Serum free Drosophila media Insect-XPRESS	Lonza	12-730Q	
Hybridoma YN1/1.7.4	ATCC	CRL1878	The hybridoma secretes antibody against ICAM-1.
Cyanogen bromide-activated-Sepharose 4B	Sigma-Aldrich	C9142	Utilized for preparation of Sepharose with covalently bound anti-ICAM antibody.
MasterFlex tangential flow concentrator	Cole-Parmer	77601-60 7592-40	Used for ICAM-1 containing supernatant concentration and

			dialysis of ICAM-1 containing supernatant
Centramate Lab Tangential Flow Systems	Pall Laboratory	FS002K10 OS010T12 FS005K10	Used for ICAM-1 containing supernatant concentration and dialysis of ICAM-1 containing supernatant
Ni-NTA Agarose	QIAGEN	30210	
Dialysis tubing	Spectra/Por	131384	
Papain from papaya latex	Sigma	P3125	
mouse anti-human antibody against CD107a	BD Biosciences	555798	Clone H4A3
Ansell Natural Blue Gloves	Fisher Scientific	19-014-539	
Nalgene Polypropylene Scissor-Type Forceps	Thermo Fisher Scientific	6320-0010	
Streptavidin	ProZyme	SA10	
Confocal microscope	Nikon		Nikon TiE inverted microscope equipped with PFS for long-term image stability control, 60X oil objectives, 4 lasers with excitation lines at 405, 458, 488, 514, 561, and 640 nm, 2 GaAsP detectors and 2 high sensitivity PMTs, DIC transmitted light, Programmable X,Y,Z stage for multiple positions and stitching of large areas, time lapse functions, Tokai-Hit temperature and CO <sub>2</sub> -controlled chamber for live imaging, and anti-vibration isolation table
TIRF microscope	Andor		Andor Revolution XD system equipped with Nikon TIRF-E illuminator, Lasers with 405,488,561 and 640 lines, DIC transmitted light, Yokogawa CSU-X1 spinning disk head for confocal imaging, 100/1.49 NA objective, Andor iXon X3 EM-CCD camera, objective heater, and a piezoelectric motorized stage with Perfect Focus System (PFS)
MetaMorph Premier Image Analysis Software	Molecular devices		