

Materials List for:

# Studying Organelle Dynamics in B Cells During Immune Synapse Formation

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URL: <https://www.jove.com/video/59621>

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## Materials

Name	Company	Catalog Number	Comments
IIA1.6 (A20 variant) mouse B-lymphoma cells	ATCC	TIB-208	Murine B-cell lymphoma of Balb/c origin that expresses an IgG-containing BCR on its surface without FcγIIIR
100% methanol	Fisher Scientific	A412-4	
10-mm diameter cover glasses thickness No. 1 circular	Marienfield-Superior	111500	
2-mercaptoethanol	Thermo Fisher Scientific	21985023	
Alexa 488 fluor- donkey ant-rabbit IgG	LifeTech	A21206	1:500 dilution recommended but should be optimized
Alexa Fluor 546 goat anti-Rabbit IgG	Thermo Fisher Scientific	A-11071	1:500 dilution recommended but should be optimized
Alexa Fluor 647-conjugated phalloidin	Thermo Fisher Scientific	A21238	1:500 dilution recommended but should be optimized
Amaxa Nucleofection kit V	Lonza	VCA-1003	Follow the manufacturer's directions for mixing the transfection reagents with the DNA
Amaxa Nucleofector model 2b	Lonza	AAB-1001	Program L-013 used
Amino- Dynabeads	ThermoFisher	14307D	
Anti-pericentrin	Abcam	ab4448	1:200 dilution recommended but should be optimized
Anti-rab6	Abcam	ab95954	1:200 dilution recommended but should be optimized
Anti-sec61	Abcam	ab15575	1:200 dilution recommended but should be optimized
BSA	Winkler	BM-0150	
CaCl <sub>2</sub>	Winkler	CA-0520	
Culture plate T25	BD	353014	
Fiji Software	Fiji col.		
Fluoromount G	Electron Microscopy Science	17984-25	
Glutamine	Thermo Fisher Scientific	35050061	
Glutaraldehyde	Sigma	G7651	
Glycine	Winkler	BM-0820	
Goat-anti-mouse IgG antibody	Jackson ImmunoResearch	315-005-003	IIA1.6 positive ligand
Goat-anti-mouse IgM antibody	Thermo Fisher Scientific	31186	IIA1.6 negative ligand
HyClone Fetal bovine serum	Thermo Fisher Scientific	SH30071.03	Heat inactivate at 56 °C for 30 min

KCl	Winkler	PO-1260	
Leica SP8 TCS microscope	Leica		
NaCl	Winkler	SO-1455	
Nikon Eclipse Ti-E epifluorescence microscope	Nikon		
Parafilm	M	P1150-2	
Paraformaldehyde	Merck	30525-89-4	Dilute to 4% with PBS in a safety cabinet, use at the moment
Penicillin-Streptomycin	Thermo Fisher Scientific	15140122	Liquid
Polybead Amino Microspheres 3.00µm	Polyscience	17145-5	
Poly-L-Lysine	Sigma	P8920	Dilute with sterile water
Rabbit anti- alpha tubulin antibody	Abcam	ab6160	1:1000 dilution recommended but should be optimized
Rabbit anti mouse lamp1 antibody	Cell signaling	3243	1:200 dilution recommended but should be optimized
Rabbit anti-cep55	Abcam	ab170414	1:500 dilution recommended but should be optimized
Rabbit Anti-gamma Tubulin antibody	Abcam	ab16504	1:1000 for Western Blot
RPMI-1640	Biological Industries	01-104-1A	
Saponin	Merck	558255	
Sodium pyruvate	Thermo Fisher Scientific	11360070	
Sucrose	Winkler	SA-1390	
Triton X-100	Merck	9036-19-5	
Tube 50 ml	Corning	353043	