

Materials List for:

Presynapse Formation Assay Using Presynapse Organizer Beads and “Neuron Ball” Culture

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URL: <https://www.jove.com/video/59893>

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Materials

Name	Company	Catalog Number	Comments
Antibody diluent	DAKO	S2022	
Alexa Fluor 594 AffiniPure Donkey Anti-Mouse IgG (H+L)	Jackson ImmunoResearch	715-585-151	
Alexa Fluor 488 AffiniPure Donkey Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	711-545-152	
mouse anti-Munc18-1	BD Biosciences	610336	
B-27 Supplement (50X), serum free	Thermo Fisher Scientific	17504044	
Bovine Serum Albumin (BSA)	Nacalai Tesque	01863-48	
Cell-Culture Treated Multidishes (4 well dish)	Nunc	176740	
Complete EDTA-free	Roche	11873580001	
cooled CCD camera	Andor Technology	iXON3	
Coverslip	Matsunami	C015001	Size: 15 mm, Thickness: 0.13-0.17 mm
Cytosine β-D-arabinofuranoside (AraC)	Sigma-Aldrich	C1768	
4',6-Diamidino-2-phenylindole Dihydrochloride (DAPI)	Nacalai Tesque	11034-56	
Deoxyribonuclease 1 (DNase I)	Wako pure chemicals	047-26771	
Expi293 Expression System	Thermo Fisher Scientific	A14635	
Horse serum	Sigma-Aldrich	H1270	
image acquisition software	Nikon	NIS-element AR	
Image analysis software	NIH	Image J	https://imagej.nih.gov/ij/
Inverted fluorescent microscope	Nikon	Eclipse Ti-E	
GlutaMAX	Thermo Fisher Scientific	35050061	
Neurobasal media	Thermo Fisher Scientific	#21103-049	
Normal Goat Serum (NGS)	Thermo Fisher Scientific	#143-06561	
N-propyl gallate	Nacalai Tesque	29303-92	
Paraformaldehyde (PFA)	Nacalai Tesque	26126-25	
Paraplast Plus	Sigma-Aldrich	P3558	
Poly-L-lysine Hydrobromide (MW>300,000)	Nacalai Tesque	28359-54	
poly (vinyl alcohol)	Sigma	P8136	
Prepacked Disposable PD-10 Columns	GE healthcare	17085101	

rabbit anti-vesicular glutamate transporter 1	Synaptic Systems	135-302	
SCAT 20X-N (neutral non-phosphorous detergent)	Nacalai Tesque	41506-04	
Streptavidin-coated magnetic particles	Spherotech Inc	SVM-40-10	diameter: 4-5 μ m
TritonX-100	Nacalai Tesque	35501-15	
Trypsin	Nacalai Tesque	18172-94	