

Materials List for:

Visualizing Axonal Growth Cone Collapse and Early Amyloid β Effects in Cultured Mouse Neurons

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URL: <https://www.jove.com/video/58229>

DOI: [doi:10.3791/58229](https://doi.org/10.3791/58229)

Materials

Name	Company	Catalog Number	Comments
ddY mice	SLC		
Eight-well culture slide	Falcon	354108	
poly D lysine	Wako	168-19041	
Culture medium, Neurobasal medium	Gibco	21103-049	
house serum	Gibco	26050-088	
glucose	Wako	049-31165	
L-glutamine	Wako	074-00522	
0.05% trypsin	Gibco	25300-054	
DNase I	Worthington	DP	
soybean trypsin inhibitor	Gibco	17075-029	
Filter with 70 μ m mesh size, cell strainer	Falcon	352350	
B-27 supplement	Gibco	17504-044	
CO ₂ incubator	Astec	SCA-165DS	
Amyloid β 1-42	Sigma-Aldrich	A9810	
paraformaldehyde	Wako	162-16065	
sucrose	Wako	196-00015	
Aqueous mounting medium, Aqua-Poly/Mount	polysciences	18606-20	
Inverted microscope A	Carl Zeiss	Axio Observer Z1	Connected with AxioCam MRm, Heating Unit XL S, CO2 Module S1, and TempModule S1
Objective Plan-Apochromat 20x	Carl Zeiss	420650-9901	
Objective Plan-Apochromat 63x	Carl Zeiss	440762-9904	
Objective, CFI Plan Apo Lambda 40X	Nikon		
anti-MAP2 IgG	Abcam	ab32454	
anti-tau-1 IgG	Chemicon	MAB3420	
anti-amyloid β antibody	IBL	10379	clone 11A1
normal goat serum	Wako	143-06561	
bovine serum albumin	Wako	010-25783	
t-octylphenoxyethoxyethanol	Wako	169-21105	
goat anti-mouse IgG conjugated with AlexaFluor 594	Invitrogen	A11032	
goat anti-rabbit IgG conjugated with AlexaFluor 488	Invitrogen	A11029	

hot plate	NISSIN	NHP-M30N	
cover glass	Fisher Scientific	12-545-85	
35 mm dish	IWAKI	1000-035	
Silicone RTV	Shin-Etsu	KE42T	
hand punch	Roper Whitney	No. XX	
Fluorescence membrane probe, FM1-43FX	Invitrogen	F35355	
Ca ²⁺ - and Mg ²⁺ -free Hanks' balanced salt solution	Gibco	14175-095	
Transfection solution, Nucleofector solution	Lonza	VPG-1001	
Electroporator, Nucleofector I	Amara		
Inverted microscope B	Keyence	BZ-X710	
Image software, ImageJ	NIH		https://imagej.nih.gov/ij/