

Materials List for:

# Lineage-reprogramming of Pericyte-derived Cells of the Adult Human Brain into Induced Neurons

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URL: <https://www.jove.com/video/51433>

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## Materials

Name	Company	Catalog Number	Comments
anti-CD140b-PE	BD Biosciences	558821	use 1:100
anti-CD146-FITC	AbD Serotec	MCA2141FT	use 1:100
anti-CD13-FITC	AbD Serotec	MVA1270A488T	use 1:100
anti-CD34-APC	BD Biosciences	560940	use 1:100
anti-PDGFRβ	Cell Signaling	3169S	use 1:200
anti-CD146	Abcam	Ab75769	use 1:400
anti-NG2	Millipore	AB5320	use 1:400
anti-SMA	Sigma-Aldrich	A2547	use 1:400
anti-βIII-tubulin	Sigma-Aldrich	T8660	use 1:400
anti-MAP2	Sigma-Aldrich	M4403	use 1:200
anti-GFAP	Sigma-Aldrich	G3893	use 1:600
anti-GFP	Aves Labs	GFP 10-20	use 1:1,000
anti-RFP	Chromotek	5F8	use 1:500
anti-S100β	Sigma-Aldrich	S2532	use 1:300
anti-NeuN	Millipore	MAB377	use 1:200
anti-GABA	Sigma-Aldrich	A2052	use 1:500
anti-Calretinin	Millipore	AB5054	use 1:500
anti-vGluT1	SYnaptic SYstems	135511	use 1:1,000
Rat IgG1 isotype control FITC	AbD Serotec	11-4301-81	use 1:100
Rat IgG1 isotype control PE	AbD Serotec	12-4301-81	use 1:100
Rat IgG1 isotype control APC	AbD Serotec	17-4301-81	use 1:100
TrypLE	Invitrogen	12605-010	
DMEM, high glucose, GlutaMAX	Invitrogen	61965	
B27 serum-free supplement	Invitrogen	17504044	
fetal calf serum	Invitrogen	10106-169	perform heat inactivation by incubation at 56 °C for 30 min
Penicillin-streptomycin	Invitrogen	15140122	
HBSS (Hanks Balanced Salt Solution)	Invitrogen	24020-091	
Dulbecco's PBS without CaCl <sub>2</sub> and MgCl <sub>2</sub> (D-PBS, 1x)	Invitrogen	14190	
HEPES	Sigma-Aldrich	H3375	

Poly-D-lysine hydrobromide (PDL)	Sigma-Aldrich	P0899	
PFA (paraformaldehyde)	Sigma-Aldrich	P1648	
Bovine serum albumin	Sigma-Aldrich	A9418	
Triton X-100	Sigma-Aldrich	T9284	
DAPI (4',6-Diamidin-2-phenylindole) dilactate	Sigma-Aldrich	042M4005	
Aqua-Poly/Mount	Polysciences	18606-20	
Polypropylene round-bottom tubes	BD Biosciences	352063	
Polystyrene round-bottom tubes with cell-strainer cap	BD Biosciences	352235	
24-well plates	Orange Scientific	5530305	
75 cm <sup>2</sup> culture flasks	Greiner Bio-One	658175	
25 cm <sup>2</sup> culture flasks	Greiner Bio-One	690175	
Disposable pipettes 10 ml	Sarstedt	86.1254.001	
Glass Pasteur pipettes (150 mm)	Fisherbrand	FB50251	
Glass coverslips 12 mm diameter	Menzel	CB00120RA1	
Surgical disposable scalpels	B. Braun	5518083	
Tissue culture dishes	Greiner Bio-One	633180	
Conical tubes 15 ml	BD Biosciences	352095	
Laminar flow hood			
Centrifuge and swing-out rotor with adapters for 15 ml and 50 ml tubes	Hettich Lab Technology	1406	
Flow cytometry cell sorter: FACSAria I with FACSDiva software	BD Biosciences		
Humified cell culture incubator	Eppendorf Galaxy 170R		
Water bath at 37 °C			
FACSFlow sheath fluid	BD Biosciences	342003	
Epifluorescence microscope BX61	Olympus		
Confocal microscope LSM710	Zeiss		