

Materials List for:

Nerve Stem Cell Differentiation by a One-step Cold Atmospheric Plasma Treatment *In Vitro*

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URL: <https://www.jove.com/video/58663>

DOI: [doi:10.3791/58663](https://doi.org/10.3791/58663)

Materials

Name	Company	Catalog Number	Comments
Coverslip	NEST	801008	
Poly-D-lysine	Beyotime	P0128	
DMEM medium	HyClone	SH30022.01B	stored at 4 °C
DMEM/F12 medium	HyClone	SH30023.01B	stored at 4 °C
N2 supplement	Gibco	17502048	stored at -20 °C and protect from light
B27 supplement	Gibco	17504044	stored at -20 °C and protect from light
Fetal bovine serum	HyClone	SH30084.03	stored at -20 °C, avoid repeated freezing and thawing
Donor Horse serum	HyClone	SH30074.03	stored at -20 °C, avoid repeated freezing and thawing
Penicillin/Streptomycin	HyClone	SV30010	stored at 4 °C
Trypsin	HyClone	25300054	stored at 4 °C
PBS solution	HyClone	SH30256.01B	stored at 4 °C
4% paraformaldehyde	Beyotime	P0098	stored at -20 °C
TritonX-100	Sigma	T8787	
Normal Goat Serum Blocking Solution	Vector Laboratories	S-1000-20	stored at 4 °C
anti-Nestin	Beyotime	AF2215	stored at -20 °C, avoid repeated freezing and thawing
anti-β-Tubulin III	Sigma Aldrich	T2200	stored at -20 °C, avoid repeated freezing and thawing
anti-O4	R&D Systems	MAB1326	stored at -20 °C, avoid repeated freezing and thawing
anti-NF200	Sigma		stored at -20 °C, avoid repeated freezing and thawing
anti-ChAT	Sigma		stored at -20 °C, avoid repeated freezing and thawing
anti-LHX3	Sigma		stored at -20 °C, avoid repeated freezing and thawing
anti-GABA	Sigma		stored at -20 °C, avoid repeated freezing and thawing
anti-Serotonin	Abcam, Cambridge, MA		stored at -20 °C, avoid repeated freezing and thawing
anti-TH	Abcam, Cambridge, MA		stored at -20 °C, avoid repeated freezing and thawing

Immunol Staining Primary Antibody Dilution Buffer	Beyotime	P0103	stored at 4 °C
Cy3 Labeled Goat Anti-Rabbit IgG	Beyotime	A0516	stored at -20 °C and protect from light
Alexa Fluor 488- Labeled Goat	Beyotime	A0428	stored at -20 °C and protect from light
Anti-Mouse IgG			
12-well plate	corning	3512	
25 cm2 flask	corning	430639	
Hoechst 33258	Beyotime	C1018	stored at -20 °C and protect from light
Mounting medium	Beyotime	P0128	stored at -20 °C and protect from light
Light microscope	Nanjing Jiangnan Novel Optics Company	XD-202	
Fluorescence microscopy	Nikon	80i	
High – voltage Power Amplifier	Directed Energy	PVX-4110	
DC power supply	Spellman	SL1200	
Function Generator	Aligent	33521A	
Oscilloscope	Tektronix	DPO3034	
High voltage probe	Tektronix	P6015A	