

Materials List for:

# Three-dimensional Quantification of Dendritic Spines from Pyramidal Neurons Derived from Human Induced Pluripotent Stem Cells

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URL: <https://www.jove.com/video/53197>

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## Materials

Name	Company	Catalog Number	Comments
D-PBS (1x), sans Calcium, Magnesium et Phenol Red	Gibco/ Life Technologies	14190169	
Poly-L-Ornithine Solution Bioreagent	Sigma Aldrich	P4957	
Mouse laminin	Dutscher Dominique	354232	
N <sub>2</sub> Supplement	Gibco/ Life Technologies	17502048	
B-27 Supplement w/o Vitamin A (50x)	Gibco/ Life Technologies	12587010	
DMEM/NUT.MIX F-12 W/GLUT-I	Gibco/ Life Technologies	31331028	
Neurobasal Med SFM	Gibco/ Life Technologies	21103049	
2-mercaptoethanol	Gibco/ Life Technologies	31350-010	
Penicillin-Streptomycin	Gibco/ Life Technologies	15140-122	
GFP Rabbit Serum Polyclonal Antibody	Gibco/ Life Technologies	A-6455	
Horse serum	Gibco/ Life Technologies	16050130	
Alexa Fluor 488 Goat Anti-Rabbit	Gibco/ Life Technologies	A11034	
Polyclonal Anti-betaIII tubulin Antibody	Millipore	AB9354	
Coverglass 13 mm	VWR	631-0150	
Prolong Gold Antifade Reagent with DAPI	Gibco/ Life Technologies	P36931	
Tween(R) 20 Bioextra, Viscous Liquid	Sigma Aldrich Chimie	P7949	
Triton X-100	Sigma Aldrich Chimie	X100-100ML	
Human Fibroblasts	Coriell Cell Line Biorepository	GM 4603 and GM 1869	Coriell Institute for Medical Research, Camden, NJ, USA
Confocal laser scanning microscope	Zeiss (Germany)	LSM 700	
Imaris Software	Bitplane AG, Zurich	6.4.0 version	Filament Tracer and Imaris XT modules are necessary
Huygens Software	Huygens software, SVI, Netherlands	Pro version	Optional (for deconvolution testing)