

Materials List for:

Quantifying Synapses: an Immunocytochemistry-based Assay to Quantify Synapse Number

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Materials

Name	Company	Catalog Number	Comments
Presynaptic	Synapsin	Rabbit	Polyclonal
Synapsin	Mouse	Monoclonal	Synaptic Systems
Bassoon	Mouse	Monoclonal	Assay Designs
Bassoon	Guinea Pig	Polyclonal	Synaptic Systems
Synaptotagmin 1	Rabbit	Polyclonal	Synaptic Systems
Synaptobrevin 2 (C1.69.1)	Mouse	Monoclonal	Synaptic Systems
Synaptophysin (C1.7.2)	Mouse	Monoclonal	Synaptic Systems
VGlut1	Mouse	Monoclonal	Millipore
VGlut1	Guinea pig	Polyclonal	Millipore
VGlut2	Guinea pig	Polyclonal	Millipore
Postsynaptic	PSD-95 (6G6-1C9 clone)	Mouse	Monoclonal
PSD-95	Rabbit	Polyclonal	Zymed
Homer	Mouse	Monoclonal	Synaptic Systems
Homer	Rat	Polyclonal	Millipore
Gephyrin	Rabbit	Polyclonal	Synaptic Systems
Gephyrin	Mouse	Monoclonal	Synaptic Systems

Table 1: Lists examples of good pre- and postsynaptic markers that we have successfully utilized in our synapse assay. Be aware that this is not an exhaustive list of all available markers. Y = Yes, N = No, N.D. = Not Determined.

PBS	Invitrogen	20012-027	
poly-d-lysine	Sigma-Aldrich	P6407	
Laminin	Cultrex	3400-010-01	
Triton X-100	Roche Diagnostics GmbH	9002-93-1	
Normal Goat Serum	GIBCO, by Life Technologies	16210	
VectaShield with DAPI	Vector Laboratories	H-1200	
OCT	Tissue-Tek	4583	
Tris-Base (50 mM)	Fisher Scientific	BP152-5	
Bovine Serum Albumin	Sigma-Aldrich	A2153	
L-lysine	Sigma-Aldrich	L-1137	
16% PFA solution	Electron Microscopy Sciences	15711	
Granular PFA	Electron Microscopy Sciences	19210	
24-well culture plate	Falcon BD	35-3047	
Goat anti-mouse Alexa conjugated antibodies	Invitrogen	---	
12mm, No. 0 glass coverslips	Karl Hecht GmbH	1105209	

No. 1.5 glass coverslip (for slices)	VWR international	48393241	
Glass slides	VWR international	48311-703	