

Materials List for:

Immunohistochemical Visualization of Hippocampal Neuron Activity After Spatial Learning in a Mouse Model of Neurodevelopmental Disorders

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Materials

Name	Company	Catalog Number	Comments
EthoVision XT 8	Noldus Information Technology		This software platform is not a requirement – there are many other behavioral softwares on the market.
Tempera Paint	Giotto - Fila Group Company		White and liquid, non toxic. Used to prepare opaque water in the Morris water maze.
Vibratome	Leica	VT1200	Equivalent models from other companies can be used.
24 well plate	Sigma	CLS3524	
100% ethanol	Fisher Scientific	A406-20	Used to make ethanol gradient for dehydration prior to slide mounting.
Xylene	VWR	66004-950	Toxic - to be used under hood. Change xylene every month depending on use.
Sodium Azide	Sigma	S2002	
PBS	Sigma	P3813-10PAK	
ddH ₂ O			
Triton X-100	Sigma	T-8787	
Hydrogen Peroxide	Sigma	H1009-100ML	
Normal Goat Serum	Abcam	G9023-10ML	
ABC kit Vectastain	Vector Laboratories	PK-6100	Add in a volume of 5 ml of PBS 2 drops of reagent A, mix and then add 2 drops of reagent B and mix.
DAB peroxidase substrate	Vector Laboratories	SK-4100	Add in a volume of 5 ml ddH ₂ O: 2 drops of buffer stock solution and mix; 4 drops of DAB and mix; 2 drops of H ₂ O ₂ and mix.

Name	Company	Catalog Number	Comments
pERK antibody	Cell Signaling Technologies	4370	Dilution 1:500
Biotinylated Goat Anti-Rabbit IgG Antibody	Vector Laboratories	BA-1000	Dilution 1:250
SuperFrost Slides	Carl Roth	1879	
Coverslips	Fisher	12-548-B	
DPX	Sigma	317616	Mounting medium for slides. Equivalent mounting medium can be used.
Microscope	Zeiss	Axio Imager.M2	Equivalent microscope can be used.

Adobe Photoshop	Adobe Systems, San Jose, CA		To assemble images.
ImageJ Software	National Institute of Health		Free software can be downloaded at http://rsb.info.nih.gov/ij/
SigmaPlot 11.0	Systat Software Inc. (USA)		Equivalent softwares for statistical analysis can be used.
Prism 6	GraphPad Software, Inc. (La Jolla, CA, USA)		Equivalent softwares for statistical analysis can be used.