

Materials List for:

# Whole Mount Immunohistochemistry in Zebrafish Embryos and Larvae

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## Materials

Name	Company	Catalog Number	Comments
Agarose	Fisher Scientific	BP160-100	
Aluminum foil, heavy duty	Kirkland		Any brand may be substituted
Anti-NMDA antibody	Millipore Sigma	MAB363	
Anti-phospho-Histone H3 (Ser10), clone RR002	Millipore Sigma	05-598	
Anti-pan-AMPA receptor (GluR1-4)	Millipore Sigma	MABN832	
Bovine serum albumin (BSA)	Fisher Scientific	BP1600-100	
Calcium Nitrate [Ca(NO <sub>3</sub> ) <sub>2</sub> ]	Sigma Aldrich	C4955	
Centrifuge tubes, 1.5 mL	Axygen	MCT150C	
Clear nail polish	Sally Hanson		Any nail polish or hardener may be substituted
Depression (concavity) slide	Electron Microscopy Sciences	71878-01	
Diaminobenzidine	Thermo Scientific	1855920	
Embryo medium, Danieau, 30%			17.4 mM NaCl, 0.21 mM KCl, 0.12 mM MgSO <sub>4</sub> , 0.18 mM Ca(NO <sub>3</sub> ) <sub>2</sub> , 1.5 mM HEPES in ultrapure water.
Embryo medium, E2			7.5 mM NaCl, 0.25 mM KCl, 0.5 mM MgSO <sub>4</sub> , 75 μM KH <sub>2</sub> PO <sub>4</sub> , 25 μM Na <sub>2</sub> HPO <sub>4</sub> , 0.5 mM CaCl <sub>2</sub> , 0.35 mM NaHCO <sub>3</sub> , 0.5 mg/L methylene blue
Floating tube holder	Thermo Scientific	59744015	
Fluorescence compound microscope	Leica Biosystems	DMI8	
Fluorescence stereomicroscope	Leica Biosystems	M165-FC	
Glass coverslips 18 mm x 18 mm	Corning	284518	
Glass coverslips 22 mm x 60 mm	Thermo Scientific	22-050-222	
Glass slides	Fisher Scientific	12-544-4	
Glycerol	Fisher Scientific	BP229-1	
Goat anti-mouse IgG Alexa 488	Invitrogen	A11001	
HEPES solution	Sigma Aldrich	H0887	
Humid chamber with lid	Simport	M920-2	
Hydrogen peroxide, 30%	Fisher Scientific	H325-500	
Immunedge pap pen	Vector labs	H-4000	
Insect pins, size 00	Stoelting	5213323	
Magnesium Sulfate (MgSO <sub>4</sub> · 7H <sub>2</sub> O)	Sigma Aldrich	63138	
Mesh strainer	Oneida		Any brand may be substituted

Methanol	Sigma Aldrich	34860	
Methylene blue	Sigma Aldrich	M9140	
Micro-tube cap lock	Research Products International	145062	
Microwave oven	Toastmaster		
Mouse IgG	Sigma Aldrich	I8765	
Normal goat serum	Millipore Sigma	S02L1ML	
Nutating mixer	Fisher Scientific	88-861-044	
Paraformaldehyde	Fisher Scientific	04042-500	
Pasteur pipettes	Fisher Scientific	13-678-20C	
PBTriton			1% TritonX-100 in 1x PBS
Permunt mounting medium	Fisher Chemical	SP15-500	
Petri dish (glass)	Pyrex	3160100	
Petri dish (plastic)	Fisher Scientific	FB0875713	
1-phenyl 2-thiourea	Acros Organics	207250250	
Phosphate buffered saline (PBS), 10x, pH 7.4	Gibco	70011-044	
Phosphate buffered saline (PBS), 1x			1x made from 10x stock diluted in dH <sub>2</sub> O
Potassium Chloride (KCl)	Sigma Aldrich	P9333	
Potassium Hydroxide (KOH)	Fisher	P250-500	
Potassium Phosphate Monobasic (KH <sub>2</sub> PO <sub>4</sub> )	Sigma Aldrich	P5655	
Pronase	Sigma Aldrich	10165921001	
Proteinase K	Invitrogen	AM2544	
Sodium Chloride (NaCl)	Sigma Aldrich	S7653	
Sodium Phosphate Dibasic (Na <sub>2</sub> HPO <sub>4</sub> )	Sigma Aldrich	S7907	
Spawning tank with lid and insert	Aquaneering	ZHCT100	
SuperBlock PBS	Thermo Scientific	37515	
Superfrost + slides	Fisher Scientific	12-550-15	
Superglue gel	3M Scotch		
TNT			100 mM Tris, pH 8.0; 150 mM NaCl; 0.1% Tween20; made in dH <sub>2</sub> O
Transfer pipette	Fisher	13-711-7M	
Trichloroacetic Acid (Cl <sub>3</sub> CCOOH)	Sigma Aldrich	T6399	
Tris Base	Fisher Scientific	S374-500	
TritonX-100	Sigma Aldrich	T9284	
Tween20	Fisher Scientific	BP337-500	
Ultrafine forceps	Fisher Scientific	16-100-121	
Water, ultrapure/double distilled	Fisher Scientific	W2-20	