

Materials List for:

Short-Term Free-Floating Slice Cultures from the Adult Human Brain

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Materials

Name	Company	Catalog Number	Comments
2-Propanol	Merck	1096341000	
Acrylamide/Bis-Acrylamide, 30% solution	Sigma Aldrich	A3449	
Agarose	Sigma Aldrich	A9539	
Ammonium persulfate	Sigma	A3678-25G	
Amphotericin B	Gibco	15290-018	
Antibody anti-ERK 2 (rabbit)	Santa Cruz Biotechnology	sc-154	Dilution 1:1,000 in BSA 2.5%
Antibody anti-pERK (mouse)	Santa Cruz Biotechnology	sc-7383	Dilution 1:1,000 in BSA 2.5%
B27	Gibco	17504-044	
BDNF	Sigma Aldrich	SRP3014	
Bovine Serum Albumin	Sigma Aldrich	A7906	
Bradford 1x Dye Reagent	BioRad	500-0205	
EDTA	Sigma	T3924	Used in RIPA buffer
Glucose	Merck	108337	
Glutamax	Gibco	35050-061	
Hank's Balanced Salts	Sigma Aldrich	H1387-10X1L	
Hepes	Sigma Aldrich	H4034	
Hydrochloric acid	Merck	1003171000	
Hydrogen Peroxide (H2O2)	Vetec	194	
Mouse IgG, HRP-linked whole Ab (anti-mouse)	GE	NA931-1ML	
NaCl	Merck	1064041000	Used in RIPA buffer
Neurobasal A	Gibco	10888-022	
Non-fat dry milk (Molico)	Nestlé		Used for membrane blocking
PBS Buffer pH 7,2	Laborclin	590338	
Penicilin/Streptomycin	Sigma Aldrich	P4333	
Potassium Chloride	Merck	1049361000	
Prime Western Blotting Detection Reagent	GE	RPN2232	
Rabbit IgG, HRP-linked whole Ab (anti-rabbit)	GE	NA934-1ML	
SDS	Sigma	L5750	Used in RIPA buffer

TEMED	GE	17-1312-01	
Thiazolyl Blue Tetrazolium Bromide (MTT)	Sigma Aldrich	M5655	
Tris	Sigma	T-1378	Used in RIPA buffer
Triton x-100	Sigma	X100	Used in RIPA buffer
Ultrapure Water	Millipore		Sterile water, derived from MiliQ water purification system
Equipment and Material			
24-well plates	Corning	CL S3526	Flat Bottom with Lid
Amersham Potran Premium (nitrocellulose membrane)	GE	29047575	
Carbogen Mixture	White Martins		95% O2, 5% CO2
CO2 incubator	New Brunswick Scientific	CO-24	Incubation of slices 5% CO2, 36°C
Microplate Reader	Molecular Devices		
Microtubes	Greiner	001608	1,5mL microtube
Motorized pestle	Kimble Chase		
Plastic spoon			Size of a dessert spoon
Razor Blade	Bic		Chrome Platinum, used in slicing with vibratome
Scalpel Blade	Becton Dickinson (BD)	Number 24	Used for slicing of tissue; recommended same size or smaller
Superglue (Loctite Super Bonder)	Henkel		Composition: Etlicianoacrilato; 2-Propenoic acid; 6,6'-di-terc-butyl-2,2'-metilenodi-p-cresol; homopolymer
Vibratome	Leica	14047235612 - VT1000S	
Name of Material/ Equipment for Immunohistochemistry			
Antibody anti-NeuN (mouse)	Millipore	MAB377	Dilution 1:1,000 in Phosphate Buffer
Antibody anti-GFAP (mouse)	Merck	MAB360	Dilution 1:1,000 in Phosphate Buffer
Antibody anti-Iba1 (rabbit)	Abcam	EPR16588 - ab178846	Dilution 1:2,000 in Phosphate Buffer
Biotinylated anti-mouse IgG Antibody (H+L)	Vector	BA-9200	
DAB	Sigma Aldrich	D-9015	
Entellan	Merck	107960	
Ethanol	Merck	1.00983.1000	
Gelatin	Synth	00G1002.02.AE	Used for coating slides
Microtome	Leica	SM2010R	Equipped with Freezing Stage (BFS-10MP, Physiotemp), set to -40°C
Normal Donkey Serum	Jackson Immuno Research	017-000-121	
Paraformaldehyde	Sigma Aldrich	158127	
Rabbit IgG, HRP-linked whole Ab (anti-rabbit)	GE	NA934-1ML	
Slides (Star Frost)	Knittel Glaser		Gelatin coated slides
Sucrose	Vetec	60REAVET017050	
Vectastain ABC HRP Kit (Peroxidase, Standard)	Vector	PK-4000, Kit Standard	

Xylene	Synth	01X1001.01.BJ	
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