

Materials List for:

Identifying Cell Surface Markers of Primary Neural Stem and Progenitor Cells by Metabolic Labeling of Sialoglycan

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Materials

Name	Company	Catalog Number	Comments
BEND3	ATCC	CRL-229	
DMEM	Gibco	11960044	
L-glutamine	Gibco	25030081	1%
Sodium pyruvate	Sigma	P5280	1%
N2 supplement	Gibco	17502048	1 to 100
N-acetyl-L-cysteine	Sigma	A7250	1 mM
Papain	Worthington	LS003726	10 U/mL
B27 supplement	Gibco	17504044	1 to 50
Poly-L-lysine	Sigma	P4707	
Basic Fibroblast growth factor	Gibco	PHG0261	10 ng/mL
Penicillin-Streptomycin	Gibco	15140122	1%
Fetal bovine serum	Gibco	10099141	10%
HBSS	Gibco	14175095	
Trypsin-EDTA, 0.25%	Gibco	25200056	
DPBS	Gibco	14190094	
Transwell	Corning	3450	
Paraformaldehyde	Sigma	158127	4%
Sucrose	Sangon	A100335	
DAPI	Gibco	62248	
RIPA buffer	Thermo Scientific	89900	
SDS-PAGE loading buffer 2x	Solarbio	P1018	
6-well plate	Corning	3335	
Tris-Glycine protein gel	invitrogen	xp00100box	
Mouse monoclonal anti-Nestin	Developmental Study Hybridoma Bank	Rat-401	1 to 20
Mouse monoclonal anti-beta-tubulin III	Sigma	T8860	1 to 1,000
Alexa Fluor 488 goat anti-mouse IgG1	invitrogen	A-21121	1 to 1,000
Alexa Fluor 546 goat anti-mouse IgG2b	invitrogen	A-21143	1 to 1,000
Albumin Bovine V	Amresco	0332	

Triton X-100	Amresco	0694	
BCA assay kit	Thermo Scientific	23225	
Dimethyl sulfoxide	Sigma	D2650	
Brij97	Aladdin	B129088	
CuSO ₄	Sigma	209198	
Alkyne-biotin	Click Chemistry Tools	TA105	
BTTAA	Click Chemistry Tools	1236	
Ac4ManNAz	Click Chemistry Tools	1084	100 µM
9AzSia	synthesized in lab		
Sodium ascorbate	Sigma	A4034	
Methanol	Sigma	34860	
EDTA	Sangon	A100322	
NaCl	Sangon	A100241	
SDS	Sangon	A100227	
Alexa Flour 647-conjugated streptavidin	invitrogen	S21374	1 to 1,000
Triethanolamine	Sigma	V900257	
Dynabeads M-280 Streptavidin	invitrogen	60210	
Ammonium bicarbonate	Sigma	9830	
Coomassie Brilliant Blue R-250	Thermo Scientific	20278	
Isoflurane	RWD Life Science Co.	970-00026-00	
DNase I	Sigma	DN25	12 µg/mL
Urea	Sigma	U5378	