

Materials List for:

High-Resolution Complexome Profiling by Cryoslicing BN-MS Analysis

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Materials

Name	Company	Catalog Number	Comments
30% Acrylamide/Bis Solution, 37.5:1	Bio Rad	#1610158	Recommended for acrylamide gradient gel solutions up to 13%
30% Acrylamide/Bis Solution, 19:1	Bio Rad	#1610154	Recommended for acrylamide gradient gel solutions >13%
SYPRO Ruby Protein Blot Stain	Bio Rad	#1703127	Total protein stain on blot membranes; sensitive and compatible with immunodetection
Coomassie Brilliant Blue G-250	Serva	no. 35050	Centrifugate stock solutions prior to use
ComplexioLyte 47	Logopharm	CL-47-01	Ready-to-use detergent buffer (1%) for mild solubilization of membrane proteins
Embedding Medium / Tissue Freezing Medium	Leica Biosystems	14020108926	Embedding medium for gel sections to be sliced by a cryo-microtome
Immobilon-P Membrane, PVDF, 0,45 µm	Merck	IPVH00010	
ECL Prime Western Blotting Detection Reagent	GE Healthcare	RPN2232	
Plastic syringe with rubber stopper, 20-30 ml	n.a.	n.a.	any supplier, important for making gel section embedding tool
broad razor blade	n.a.	n.a.	any supplier, for BN-PAGE gel trimming / excision of lanes
metal tube / cylinder, ca. 4 cm long	n.a.	n.a.	mold for embedding and freezing of gel samples
Protein LoBind Tubes, 1.5 ml	Eppendorf	Nr. 0030108116	highly recommended to minimize protein/peptide loss due to absorption
sequencing-grade modified trypsin	Promega	V5111	
C18 PepMap100 precolumn, particle size 5 µm	Dionex / Thermo Scientific	P/N 160454	
PicoTip emitter (i.d. 75 µm; tip 8 µm)	New Objective	FS360-75-8	
ReproSil-Pur 120 ODS-3 (C18, 3 µm)	Dr. Maisch GmbH	r13.93.	columns packed manually
rabbit anti-TPC1 antibody	Gramsch Laboratories	custom production	described in Castonguay, et al., 2017 (Reference 12)
Cy3-biotinylated goat anti-rabbit IgG	Vector Laboratories	CY-1300	described in Castonguay, et al., 2017 (Reference 12)

biotinylated Lotus tetragonolobus lectin, FITC-conjugated	Vector Laboratories	#B1325	described in Castonguay, et al., 2017 (Reference 12)
cryo-microtome Leica CM1950	Leica Biosystems	14047743905	
Mini Protean II Cell with wetblot unit	Bio Rad	n.a.	for SDS-PAGE and Westernblot (not sold any more)
Penguin Midi Gel Electrophoresis System	PeqLab	n.a.	for BN-PAGE (not sold any more)
Zeiss Axiovert 200 M microscope + Photometrics Coolsnap 2 digital camera	Zeiss / Photometrics	n.a.	
peristaltic pump (IP high precision multichannel)	ismatec	ISM940	for casting of gradient polyacrylamide gels
gradient mixer with stirring (two chambers)	selfmade, alternatively Bio Rad	1652000 or 1652001	for casting of gradient polyacrylamide gels, manual provides instructions to cast linear or hyperbolic gradient gels (http://www.bio-rad.com/webroot/web/pdf/lsr/literature/M1652000.pdf)
ultracentrifuge Sorvall M120 with S80 AT3 rotor	Sorvall / Thermo Scientific	n.a.	for sample preparation (not sold any more)
UltiMate 3000 RSLCnano HPLC	Dionex / Thermo Scientific	ULTIM3000RSLCNANO	
Orbitrap Elite mass spectrometer	Thermo Scientific	IQLAAEGAAPFADBMAZQ	