

Materials List for:

Characterization of Immune Cell-derived Extracellular Vesicles and Studying Functional Impact on Cell Environment

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Materials

Name	Company	Catalog Number	Comments
12% Mini-PROTEAN TGX Precast Protein Gels	Bio-rad	4561045EDU	
Acetonitrile	Fisher Chemicals	A955-1	
Amicon 50 kDa centrifugal filter	Merck	UFC505024	
Ammonium bicarbonate	Sigma-Aldrich	9830	
HSP90 α/β antibody (RRID: AB_675659)	Santa-cruz	sc-13119	
B27 Plus supplement	Gibco	A3582801	
BenchMixer V2 Vortex Mixer	Benchmark Scientific	BV1003	
Bio-Rad Protein Assay Dye Reagent Concentrate (Bradford)	Bio-Rad	5000006	
C18 ZipTips	Merck Millipore	ZTC18S096	
C6 rat glioma cell	ATCC	ATCC CCL-107	
Canonical tubes	Sarstedt	62.554.002	
Centrifuge	Eppendorf	5804000010	
CO ₂ Incubator	ThermoFisher		
Confocal microscope LSM880	Carl Zeiss	LSM880	
Cover glass	Marienfeld	111580	
Culture Dish (60 mm)	Sarstedt	82.1473	
Dithiothreitol	Sigma-Aldrich	43819	
DMEM	Gibco	41966029	
EASY-nLC 1000 Liquid Chromatograph	ThermoFisher		
Electron microscope JEM-2100	JEOL		
Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid	Sigma-Aldrich	03777-10G	
Ethylenediaminetetraacetic acid	Sigma-Aldrich	ED-100G	
Exo-FBS	Ozyme	EXO-FBS-50A-1	Exosome depleted FBS
ExoCarta database (top 100 proteins of Evs)			http://www.exocarta.org/
Fetal Bovine Serum	Gibco	16140071	
Fetal Horse Serum	Biowest	S0960-500	
Filtropur S 0.2	Sarstedt	83.1826.001	
Fisherbrand Q500 Sonicator with Probe	Fisherbrand	12893543	
FlexAnalysis	Brucker		

Fluorescence mounting medium	Agilent	S3023	
Formic Acid	Sigma-Aldrich	695076	
Formvar-carbon coated copper grids	Agar scientific Ltd	AGS162-3	
Glucose	Sigma-Aldrich	G8769	
Glutaraldehyde	Sigma-Aldrich	340855	
Hoechst 33342	Euromedex	17535-AAT	
Idoacetamide	Sigma-Aldrich	I1149	
InstantBlue Coomassie Protein Stain	Expedeon	ISB1L	
Invert light microscope CKX53	Olympus		
L-glutamine	Gibco	25030-024	
LabTek II 8 wells	Nunc	154534	
Laemmli 2x	Bio-Rad	1610737	
Laminin	Corning	354232	
MaxQuant software (proteins identification software)			https://maxquant.net/maxquant/
MBT Polish stell	Brucker	8268711	
MEM 10x	Gibco	21090-022	
Methylcellulose	Sigma-Aldrich	M6385-100G	
MiliQ water	Merck Millipore		
Milk	Regilait	REGILAIT300	
Mini PROTEAN Vertical Electrophoresis Cell	Bio-Rad	1658000FC	
MonoP FPLC column	GE Healthcare		no longer available
Nanosight NS300	Malvern Panalytical	NS300	
NanoSight NTA software v3.2	Malvern Panalytical		
NanoSight syringe pump	Malvern Panalytical		
Neurobasal	Gibco	21103-049	
Nitrocellulose membrane	GE Healthcare	10600007	
Nonidet P-40	Fluka	56741	
Nunc multidish 24 wells	ThermoFisher	82.1473	
Paraformaldehyde	Electro microscopy Science	15713	
PC-12 cell line	ATCC	ATCC CRL-1721	
Penicillin-Streptomycin	Gibco	15140-122	
Peptide calibration mix	LaserBio Labs	C101	
Peroxidase AffiniPure Goat Anti-Mouse IgG (H+L)	Jackson ImmunoResearch	115-035-003	
Perseus software (Processing of identified proteins)			https://maxquant.net/perseus/
Phalloidin-tetramethylrhodamine conjugate	Santa-cruz	sc-362065	
Phenylmethanesulfonyl fluoride	Sigma-Aldrich	78830	
Phosphate Buffer Saline	Invitrogen	14190094	no calcium, no magnesium
pluriStrainer M/ 60 µm	pluriSelect	43-50060	
Poly-D-lysine	Sigma-Aldrich	P6407	
Polycarbonate centrifuge tubes	Beckman Coulter	355651	
Protease Inhibitor	Sigma-Aldrich	S8830-20TAB	

PureCol	Cell Systems	5005	
Q-Exactive mass spectrometer	ThermoFisher		
rapifleX mass spectrometer	Brucker		
Rat cortical neurons	Cell Applications	R882N-20	Cell origin : Derived from cerebral cortices of day 18 embryonic Sprague Dawley rat brains
Rat Macrophage & Microglia Culture Medium	Cell Applications	R620K-100	Cell origin : Normal healthy Rat bone marrow
Rat primary macrophages	Cell Applications	R8818-10a	
Rat primary microglia	Lonza	RG535	
Sepharose CL-2B	GE Healthcare	17014001	
Sequencing Grade Modified Trypsin	Promega	V5111	
Slide	Dustsher	100204	
Sodium Chloride	Scharlau	SO0227	
Sodium Dodecyl Sulfate	Sigma-Aldrich	L3771	
Sodium Fluoride	Sigma-Aldrich	S7920-100G	
Sodium hydroxide	Scharlab	SO0420005P	
Sodium pyrophosphate	Sigma-Aldrich	S6422-100G	
SpeedVac Vacuum Concentrator	ThermoFisher		
String software (functional protein association networks)			https://string-db.org/
SuperSignal West Dura extended Duration Substrate	ThermoFisher	34075	
Syringe 1.0 mL	Terumo	8SS01H1	
Trans-Blot SD Semi-Dry Transfer cell	Bio-Rad	1703940	
Trifluoroacetic acid	Sigma-Aldrich	T6508	
Tris	Interchim	UP031657	
Tris-Glycine	Euromedex	EU0550	
Tween 20	Sigma-Aldrich	P2287	
Ultracentrifuge	Beckman Coulter	A95765	
Ultracentrifuge Rotor 70.1 Ti	Beckman Coulter	342184	
Uranyl acetate	Agar Scientific Ltd	AGR1260A	
Whatman filter paper	Sigma-Aldrich	WHA10347510	
α -Cyano-4-hydroxycinnamic acid	Sigma-Aldrich	C2020-25G	