

Materials List for:

A Rapid, Scalable Method for the Isolation, Functional Study, and Analysis of Cell-derived Extracellular Matrix

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URL: <https://www.jove.com/video/55051>

DOI: [doi:10.3791/55051](https://doi.org/10.3791/55051)

Materials

Name	Company	Catalog Number	Comments
Antibody to COL1A1	Novus	NB600-408	Rabbit polyclonal. Reacts with other fibrillar collagens as well as collagen I. IF: 1/200
Antibody to fibronectin	Sigma	F3648	Rabbit polyclonal. WB: 1/600 for 1.5 h. IF: 1/200
Antibody to thrombospondin 1	ThermoFisher	MA5-13398	Mouse monoclonal clone A6.1. WB: 1/150 for 1.5 h
Antibody to RFP	Abcam	ab62341	Rabbit polyclonal. WB: 1/2,000 for 2 h
Antibody to β -actin	Sigma	A1978	Mouse monoclonal clone AC-15. WB: 1/10,000 for 1.5 h
Antibody to α -tubulin	Sigma	T9026	Mouse monoclonal clone DM1A. WB: 1/5,000 for 1.5 h
Cell Tracker Green	ThermoFisher	C2925	Fluorescent cell marker. Use at 1 μ M for 30 min
Fluorescein isothiocyanate (FITC)-Phalloidin	Sigma	P-5282	Stock = 50 mg/mL in DMSO. 1/50 for 45 min
FITC-conjugated goat anti-mouse IgG	Sigma	F8771	IF: 1/50 for 1 h
FITC-conjugated sheep anti-rabbit IgG	Sigma	F7512	IF: 1/50 for 1 h
Horseradish peroxidase (HRP)-conjugated goat anti-mouse IgG	LI-COR	926-80010	WB: 1/50,000 for 1 h
HRP-conjugated goat anti-rabbit IgG	LI-COR	926-80011	WB: 1/100,000 for 1 h
Vectorshield mounting medium with DAPI	Vector	H-1200	Store at 4 °C in the dark
Dulbecco's Modified Eagle's Medium	Sigma	D6429	Warm before use
Fibroblast growth medium	PromoCell	C-23010	Warm before use, supplement with 50 μ g/mL ascorbic acid
Phenol red-free DMEM	ThermoFisher	21063-029	Warm before use
Trypsin-EDTA solution	Sigma	T3924	Warm before use
Gridded glass-bottomed dish	MatTek	P35G-2-14-C-GRID	
NH ₄ OH, 28-30% solution	Sigma	221228	Dilute to 20 mM in de-ionised water. Once opened store in the dark, tightly capped.
Paraformaldehyde, 16% solution	Alfa Aesar	43368	Dilute to 2% (v/v) in PBS
Deoxycholic acid	Sigma	D2510	Use at 2% (v/v) final concentration

Triton X-100	Sigma	T8787	Dilute to 0.5% (v/v) final concentration
GelCode Blue stain reagent	ThermoFisher	24590	Protein stain for SDS-PAGE gels
Precision Plus protein standards	Biorad	161-0374	Protein standards for SDS-PAGE gels
Trans-Blot SD Semi Dry transfer cell	Biorad	1703940	Efficient transfer of high molecular weight proteins
PVDF transfer membrane	Millipore	ISEQ00010	Immobilon-PSQ
Ponceau S stain	Sigma	P7170	Reversible protein stain for PVDF membrane
WesternSure Enhanced chemiluminescence (ECL) substrate	LI-COR	926-80200	
High performance chemiluminescence film	GE Healthcare	28906837	
Sterile filtration unit, MILLEX-GV	Millipore	ML481051	
SP8 AOBS confocal laser scanning microscope	Leica		Environmental chamber needed for temperature and CO ₂ control (Life Imaging Services)

Key: IF, Immunofluorescence; WB, Western Blot