

Materials List for:

Highly Sensitive and Quantitative Detection of Proteins and Their Isoforms by Capillary Isoelectric Focusing Method

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URL: <https://www.jove.com/video/56794>

DOI: [doi:10.3791/56794](https://doi.org/10.3791/56794)

Materials

Name	Company	Catalog Number	Comments
NanoPro 1000	ProteinSimple		
Premix G2, pH 5–8 (nested) separation gradient, pH 2–4 plug	ProteinSimple	040-972	Ampholyte premix
DMSO inhibitor mix	ProteinSimple	040-510	Phosphatase inhibitors; for cIEF 1:50 dilution used
Aqueous Inhibitor Mix	ProteinSimple	040-482	Protease inhibitor; for cIEF 1:25 dilution used
pI standard ladder 3	ProteinSimple	040-646	For cIEF 1:60 dilution used
Sample diluent	ProteinSimple	040-649	
Antibody diluent	ProteinSimple	040-309	
Wash concentrate	ProteinSimple	041-108	
Anolyte Refill	ProteinSimple	040-337	
Catholyte Refill	ProteinSimple	040-338	
Peroxide XDR	ProteinSimple	041-084	
Luminol	ProteinSimple	040-652	
Bicine/CHAPS Lysis Buffer	ProteinSimple	040-764	
Capillaries-Charge Separation (1 pack) for	ProteinSimple	CBS700	
Assay Plate/Lid Kit	ProteinSimple	040-663	
Peroxidase-AffiniPure Donkey Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	711-035-152	For cIEF used (1: 300)
Peroxidase-AffiniPure Donkey Anti-Mouse IgG (H+L)	Jackson ImmunoResearch	715-035-150	For cIEF used (1: 300)
Phospho-Erk 1/2 Primary Antibody	Cell Signaling	9101	For cIEF used (1: 50)
Pan Erk Primary Antibody	Cell Signaling	9102	For cIEF used (1: 100)
Compass software	ProteinSimple		
HUVEC	ATCC	PCS-100-010	
MV2 (EBM-2)	PromoCell	C-22221	Endothelia cell basal medium
Endothelial Cell Growth Medium MV2 SupplementPack	PromoCell	C-39221	Supplementation to MV2 above
VEGFA	PeproTech	100-20	
Long R3 IGF	Sigma-Aldrich	85580C/I1146	Insulin-like growth factor
Bioruptor (Sonicator)	Diagenode	B01020001	
BCA Protein Assay kit	Thermo Fischer Scientific	23225	
NuPAGE 4-12% Bis-Tris Protein Gels	Thermo Fischer Scientific	NP0322BOX	

NuPAG MOPS SDS Running Buffer (20X)	Thermo Fischer Scientific	NP0001	
NuPAGE Transfer Buffer (20X)	Thermo Fischer Scientific	NP0006	
Immobilon PVDF membrane	Millipore	IPVH00010	
Microfuge tube vortexer			
Centrifuge			
Microtiter plate adapter for centrifuge			
Pipettors			
Tips			
Ice			