

Materials List for:

The Cell-based L-Glutathione Protection Assays to Study Endocytosis and Recycling of Plasma Membrane Proteins

Kristine M. Cihil^{1,2}, Agnieszka Swiatecka-Urban^{1,2}

¹Department of Nephrology, Children's Hospital of Pittsburgh of UPMC

²Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine

Correspondence to: Agnieszka Swiatecka-Urban at Agnieszka.Swiatecka-Urban@chp.edu

URL: <https://www.jove.com/video/50867>

DOI: [doi:10.3791/50867](https://doi.org/10.3791/50867)

Materials

Name	Company	Catalog Number	Comments
CFBE41o- cells			reference ^{10,11,13,14,15}
HEK293 cells			reference ¹³
Minimal Essential Medium (MEM)	Gibco	11095	
L-Glutamine	Cellgro	25-005-CL	
Penicillin	Sigma	P0781	
Streptomycin			
Puromycin	InvivoGen	ant-pr-1	
PureCol Bovine Collagen Solution Type I	Advanced Biomatrix	5005-B	
Culture Reagents			
Dulbecco's Phosphate Buffered Saline (PBS)	Gibco	14190	
Calcium chloride	Sigma	C3306	
Magnesium chloride	Sigma	M2670	
Sodium chloride	Sigma	S3014	
EZLink Sulfo-NHS-SS-Biotin	Pierce	21331	
L-Glutathione reduced (GSH)	Sigma	G6529	
Streptavidin-agarose resin	Thermo Fisher	20353	
Sodium hydroxide	Sigma	224165	
Fetal bovine serum	Gemini Bioscience	100-106	
Milli-Q water	Millipore	Advantage System	
HEPES	Sigma	H3375	
Triton X-100	Bio Rad	161-0407	
Glycerol	FisherScientific	G33	
Laemli Sample buffer	BioRad	161-0737	
Dithiothreitol (DTT)	Sigma	646563	
Complete Protease Inhibitor cocktail	Roche	1697498	
Streptavidin beads	Thermo Scientific	20353	
Chemiluminescence	Perkin Elmer	NEL104001EA	
Reagents			
Nonfat dry milk	Carnation	N/A	
Tween-20	BioRad	170-6539	
Tris-buffered Saline (TBS)	BioRad	170-6435	

Bovine Serum Albumin (BSA)	Gibco	15120	
Primary and secondary			
Antibodies for Western Blotting			
Mouse monoclonal Anti-CFTR 596	Cystic Fibrosis Foundation Therapeutics, Inc., Chapel Hill, NC		
Anti-ezrin			
Running buffer 10x	BioRad	161-0772	
Transfer buffer 10x (without SDS)	BioRad	161-0771	
Methanol	Fisher	A4129	
Coulter counter	Beckman Coulter	Z1Coulter Particle Counter	
Standard Cell Culture equipment			
Cell culture hood with UV light			
Stock flasks			
Transwell filters-24mm	Corning	3412	
4 cm cell culture dishes			
pH meter			
15 ml and 50 ml conical tubes			
1.5 ml Eppendorf tubes			
Rubber policeman			
Cold room			
Ice buckets and ice			
27 G needles			
37 °C Incubator			
Thermometer			
Benchtop centrifuge			
Cooled centrifuge			
Electrophoresis equipment			
Developer			
Film	GE Amersham	28-9068-36	
PVDF membrane	Millipore	IPVH00010	
ImageJ software	NIH		