

Materials List for:

Purification of Biotinylated Cell Surface Proteins from *Rhipicephalus microplus* Epithelial Gut Cells

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Materials

Name	Company	Catalog Number	Comments
0.4% Trypan Blue	ThermoFisher Scientific	15250061	
1.5 mL microcentrifuge tube	Eppendorf	3322	
100mM Carbonate Buffer			3.03 g Na ₂ CO ₃ , 6.0 g NaHCO ₃ 1000 ml distilled water pH 9.6
16 mL centrifuge tubes with sealing cap	Thermo Scientific	3138-0016	Cool in ice prior to gradient
250 µM cell strainer	Thermo Fisher	87791	
3,3',5,5'-Tetramethylbenzidine (TMB) Liquid Substrate System for ELISA	Sigma	T0440	Stored at 4C
30% Hydrogen Peroxide	Labscene	BSPA5.500	
4-20% Tris-MOPS Gel	Gen Script	M42015	
4-Chloro-1-naphthol tablet	Sigma-Aldrich	C6788	
50 mL Falcon Tube	Corning Blue		30 x 115mm style. Polypropylene conical tube.
70 µM cell strainer	BD Falcon	352350	
AP15 filter paper	Millipore	AO1504200	
Biotin (Type A) Conjugation Kit	Abcam	Ab102865	
Dissection microscope	Olympus	SZX7	
DP Manager	Olympus	2.2.1.195	Cell imagery software
Duct Tape	Home Handyman		48mm x 25mm Duct Tape
Dulbecco's Modified Eagle Medium	Gibco	11995-065	DMEM - ice cold for protocol
EDTA	Amresco	0105-500G	
F96 Maxisorp Immuno Plate	Nunc	439454	
Fetal Bovine Serum	Sigma-Aldrich	12003C	FCS
Fluorescence microscope	Olympus	BX51	
Fluoroshield with DAPI	Sigma-Aldrich	F6057-20ML	DAPI
Forceps	Dumont		#9 Dumont - Switzerland
Glycerol	Sigma-Aldrich	G5516	Glycerol for molecular biology>99%
Glycine	Sigma-Aldrich	410225	
Hand-Held Counter	Officeworks	JA0376230	
Hank's Balanced Salt Solution	Sigma Life Sciences	H9394	HBSS – ice cold for protocol
Hemocytometer	Optik Lakor	-	-
L-Glutathione oxidized	Sigma-Aldrich	G4376	

Magnetic Separation Stand	Novagen	-	4-Tube Magnetic Separation Rack
Methanol	Sigma-Aldrich	179337	
Milli-Q Water	Millipore	ZRXQ003WW	Integral Water Purification System for Ultrapure Water
Nitrocellulose Membrane	Life Sciences	66485	30cm x 3M pure nitrocellulose membrane
PageRuler Prestained protein Ladder	Thermo-Fisher	SM0671	
PBS			1.16 g Na ₂ HPO ₄ , 0.1 g KCl, 0.1 g K ₃ PO ₄ , 4.0 g NaCl (500 ml distilled water) pH 7.4
Percoll	Sigma-Aldrich	P1644-500ML	
Peristaltic Pump	Masterflex	7518-10	
Phosphoric Acid	Sigma-Aldrich	P6560	
Pierce Protein-Free T20 PBS Blocking Buffer	Thermo-Scientific	37573	Stored at 4C. Blocking Buffer
Protease Inhibitor Cocktail	Sigma-Aldrich	P8215-5ML	PIC – stored at -20 °C
Quick Start Bradford Dye Reagent 1x	Biorad	500-0205	For Bradford Assay
Quick Start BSA Standards	Biorad	500-0207	BSA standards for Bradford Assay
Scalpel	Lab. Co		Size 11 Scalpel
SilverQuest TM Staining Kit	Invitrogen	LC6070	
Simply Blue TM Safe Stain	Invitrogen	LC6060	
Sorvall C6+ Ultracentrifuge	Thermo Scientific	46910	
Streptavidin (HRP)	Abcam	AB7403	
Streptavidin Magnetic Beads	New England Biolabs	S1420S	
Super Glue - Ultra Fast Mini	UHU		UHU Super Glue 1mg. Ultra Fast mini
Table-top Centrifuge	Eppendorf	22331	
TCEP	Thermo Fisher	20490	
Triton X-100	Biorad	161-0407	
Tween-20	Sigma	P2287-500ML	
Vortex Mixer	Ratek	VM1	
Water Bath	Grant	GD100	