

Materials List for:

Detection of Human Leukocyte Antigen Biomarkers in Breast Cancer Utilizing Label-free Biosensor Technology

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Materials

Name	Company	Catalog Number	Comments
ResoSens Label-free Bioassay Detection System	Resonant Sensors Incorporated		
Avidin Sensitized Bionetic 96-well Plates	Resonant Sensors Incorporated		
ResoVu software	Resonant Sensors Incorporated		
RL21A Biotinylated TCRm mAb	PureMHC, LLC		
RL9A Biotinylated TCRm mAb	PureMHC, LLC		
FLSL HLA-A*02:01 Monomer	Experimmune		full peptide sequence: FLSELTQQL
SLLV HLA-A*02:01 Monomer	Experimmune		full peptide sequence: SLLMWITQV
YLEV HLA-A*02:01 Monomer	Experimmune		full peptide sequence: YLEPGPVTV
KVL HLA-A*02:01 Monomer	Experimmune		full peptide sequence: KVLEYVIKV
Pooled Normal Human Serum	ThermoFisher	BP2657100	
MDA-MB-231 Cell Supernatant	ATCC	HTB-26	Cells grown in IMDM , 10% FBS and 1% penn/strep. Supernatants harvested from 3 day confluent cultures.
Iscove's Modification of Dulbecco's Medium (IMDM)	Life Technologies	12440-053	
Fetal Bovine Serum (FBS)	Life Technologies	10082-147	
Penicillin/Streptomycin	Life Technologies	15070-63	
Sodium Hydroxide	ThermoFisher	5318-1	
Phosphate Buffered Saline (PBS)	ThermoFisher	BP665-1	
Phosphate Buffered Saline + 0.05% Tween 20 (PBST)	ThermoFisher	BP337-500	
2,2'-Azinobis [3-ethylbenzothiazoline-6-sulfonic acid]-diammonium salt (ABTS)	ThermoFisher	37615	
rabbit anti-human β 2 microglobulin	Dako	A0072	
Peroxidase conjugated goat anti-rabbit IgG	Jackson Immunoresearch	111-035-144	
Nunc microplates	ThermoFisher	439454	
Synergy 2 microplate reader	Biotek		
Impress Reagent Kit	Vector	MP-7402	

Impact DAB	Vector	SK-4105	
Hematoxylin QS	Vector	H3403	
IgG2a	MP BioMedicals	50328	
IgG2b	MP BioMedicals	50330	
anti-HLA-A2 (BB7.2)	Experimmune		
Prism 5	Graphpad		