

Materials List for:

# Visualizing Antigen Specific CD4+ T Cells using MHC Class II Tetramers

Eddie A. James<sup>1</sup>, Rebecca LaFond<sup>2</sup>, Ivana Durinovic-Bello<sup>3</sup>, William Kwok<sup>2</sup>

<sup>1</sup>Tetramer Core Laboratory, Benaroya Research Institute

<sup>2</sup>Kwok Laboratory, Benaroya Research Institute

<sup>3</sup>Nepom Laboratory, Benaroya Research Institute

Correspondence to: Eddie A. James at [ejames@benaroyaresearch.org](mailto:ejames@benaroyaresearch.org)

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## Materials

Name	Type	Company	Catalog Number	Comments
Class 2 Laminar flow biosafety cabinet	equipment	Thermo Fisher Scientific, Inc.	1200	Or equivalent
50 mL conical Tube	equipment	VWR international	47747-182	Or equivalent
1X PBS (Ca/Mg free)	Reagent	Hyclone	SH30028.02	Or equivalent
Ficoll-paque PLUS	Reagent	GE Healthcare	17-1440-03	foil wrapped to protect from light
Pipet Aid XP	equipment	Drummond Scientific	4-000-101	Or equivalent
10 mL pipet	equipment	Corning	CLS4492	Or equivalent
Aerosolve Canisters	equipment	Beckman Coulter Inc.	359481	with 50 mL inserts
Centrifuge	equipment	Beckman Coulter Inc.	GS-6R	Or equivalent
Transfer pipets	equipment	Samco Scientific, Thermo Fisher Scientific	202-20S	Or equivalent
Pasteur pipets	equipment	VWR international	14672-200	Or equivalent
Hemolytic Buffer	Reagent	N/A	N/A	8.3 g/L NH <sub>4</sub> Cl, 1.0 g/L NaHCO <sub>3</sub> , 0.04 g/L disodium EDTA
Trypan blue	Reagent	Sigma-Aldrich	T6146	0.2% in PBS
Hemocytometer	equipment	VWR international	15170-208	
15 mL conical tube	equipment	VWR international	05-527-90	Or equivalent
Running Buffer	Reagent	N/A	N/A	PBS + 2mM EDTA + 5g/L BSA
MACS CD4+ T Cell Isolation Kit II	Reagent	Miltenyi Biotec	130-091-155	Or equivalent
EasySep® Magnet	equipment	Stem Cell Technologies	18000	
5 mL polypropylene tube	equipment	Falcon BD	352063	
RPMI 1640	Reagent	Invitrogen	22400-089	with 25 mM HEPES
Pooled human serum	Reagent	N/A	N/A	drawn from healthy donors, heat inactivated and filtered
Pen Strep	Reagent	Invitrogen	1570-063	Or equivalent
500mL 0.22 micron bottle top filter	equipment	Nalge Nunc international	595-3320	Or equivalent
48-well plate	equipment	Costar	3548	Or equivalent
37°C CO <sub>2</sub> incubator	equipment	Sanyo	MCO-18AIC	Or equivalent
20 mg/mL synthetic peptide	Reagent	N/A	N/A	Custom synthesis from any peptide vendor
5 mL FACS tube	equipment	Falcon BD	352008	Polystyrene

Peptide loaded class II tetramer (as described)	Reagent	N/A	N/A	Prepared by the BRI tetramer core
Anti-CD3	Reagent	BD Biosciences	347344	Or equivalent
Anti-CD4	Reagent	eBioscience	17-0049-73	Or equivalent
Anti-CD25	Reagent	eBioscience	11-0259-73	Or equivalent
Facs Calibur Flow Cytometer	equipment	BD Biosciences	342975	Or equivalent