

Tetrameric Fluorescent Antigen Arrays for Single-Step Identification of Antigen-Specific B Cells

 Kyle D. Apley^{*1}, J. Daniel Griffin^{*1}, Stephanie N. Johnson¹, Cory J. Berkland^{1,2,3}, Brandon J. DeKosky^{1,2,3}
¹Department of Pharmaceutical Chemistry, University of Kansas ²Bioengineering Graduate Program, University of Kansas ³Department of Chemical and Petroleum Engineering, University of Kansas

*These authors contributed equally

Corresponding Author

Brandon J. DeKosky

dekosky@ku.edu

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Materials

Name	Company	Catalog Number	Comments
1,1,3,3-tetramethylguanidine	Alfa Aesar	AAA12314AC	
12 M hydrochloric acid	Fisher Chemical	A508-4	
12% Mini-PROTEAN TGX Precast Protein Gels, 10-well, 30 ul	Bio-Rad	4561043	
20 kDa 4-arm PEG azide	Jenkem USA	A7185-1	
3.5 kDa MWCO dialysis tubing (regenerated cellulose)	Fisher Scientific	25-152-10	
Acetonitrile, HPLC grade	Fisher Chemical	A998-4	
Alexa Fluor 647 anti-mouse CD19 Antibody	BioLegend	115522	
anhydrous dimethylsulfoxide	ACROS Organics	AC610420010	
barium chloride	ACROS Organics	203135000	
Brilliant Blue G-250 Dye	Fisher BioReagents	BP100-50	
Cell Prime r-insulin	EMD Millipore	4512-01	<i>Recombinant human insulin for insulin FAA synthesis</i>
Copper (II) sulfate pentahydrate	ACROS Organics	AC197722500	
dimethylsulfoxide	Fisher Chemical	S67496	
fluorescein isothiocyanate (FITC) isomer 1	Sigma-Aldrich	F7250-1G	
Glacial acetic acid	Fisher Chemical	A38-212	
Glycerol	ACROS Organics	15892-0010	
Glycine	Fisher Chemical	G46-500	
homopropargyl-PLP	Biomatik	NA	<i>Custom synthesis (sequence: homopropargyl-HSLGKWLGHDPKF; purity: 97.29%)</i>
iodine	Sigma-Aldrich	207772-100G	
Methanol, HPLC grade	Fisher Chemical	A452-4	

NHS-Rhodamine (5/6-carboxy-tetramethyl-rhodamine succinimidyl ester), mixed isomer	Thermo Scientific	46406	<i>A commercially available analog of the Rhodamine-B NHS ester used in the paper</i>
PE/Cyanine7 anti-mouse CD3 Antibody	BioLegend	100220	
potassium iodide	Sigma-Aldrich	30315	
propargyl N-hydroxysuccinimide ester	Sigma-Aldrich	764221	
sodium ascorbate	Sigma-Aldrich	A7631	
sodium bicarbonate	Sigma-Aldrich	S5761-1KG	
sodium dodecyl sulfate	Fisher BioReagents	BP166-100	
Sodium phosphate monobasic monohydrate	Fisher Chemical	S468-500	
trifluoroacetic acid	Sigma-Aldrich	302031-10x1mL	
Tris base	Fisher BioReagents	BP152-500	
Tris(3-hydroxypropyltriazolylmethyl)amine	ClickChemTools	1010-1000	
xBridge BEH C18 3.5 um, 4.6 x 150 mm column	Waters	186003034	
xBridge BEH C18 5um OBD Prep Column, 19 x 250 mm	Waters	186004021	