

Materials List for:

# Profiling Anti-Neu5Gc IgG in Human Sera with a Sialoglycan Microarray Assay

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URL: <https://www.jove.com/video/56094>

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## Materials

Name	Company	Catalog Number	Comments
Primary-amine containing sialoglycans	Glycohub, Inc., Davis, CA, USA ( <a href="http://www.glycohub.com/services">http://www.glycohub.com/services</a> )	Contact <a href="mailto:info@glycohubusa.com">info@glycohubusa.com</a> for compound requests	Printed glycans
Monosodium phosphate monohydrate	Sigma	S9638	Printing buffer component
Disodium phosphate heptahydrate	Sigma	S9390	Printing buffer component
Phosphate buffered saline	Hy-Labs	BP-507/500D	Printing buffer/ incubation/washing buffer
Tris-base	Sigma	T1503	Slide blocking reagent
Glycerol	Sigma	G-7893	Printing buffer component
Ethanolamine	Thermo-Fisher Scientific	0700/08	Slide blocking reagent
Ovalbumin (Grade V)	Sigma	A5503	Slide Blocking protein
Tween-20	Sigma	P7949	Slide washing detergent
Alexa 555-Hydrazide	Thermo-Fisher Scientific	A20501MP	Marker on array
ChromPure Human IgG, whole molecule	Jackson ImmunoResearch	009-000-003	Printing component
Biotinylated- SNA	Vector Laboratories	B-1305	Plant Lectin – binding Sia-alpha2–6-linked
Biotinylated-MALII	Vector Laboratories	B-1265	Plant Lectin – binding Sia-alpha2–3-linked
Chicken-anti Neu5Gc IgY	BioLegend	146903	Primary detection
Cy3-Streptavidin	Jackson ImmunoResearch	016-160-0848	Biotin binding
Cy3-anti Human IgG	Jackson ImmunoResearch	109-165-088	Secondary detection against human IgG
Cy3-anti Chicken IgY	Jackson ImmunoResearch	703-165-155	Secondary detection against chicken IgY
Human sera samples	Israeli Blood Bank		Primary detection
Compressed Nitrogen (Grade 5)			General dusting/drying tool
Epoxy-coated slides	Corning	40044	Slides
Epoxy-coated slides	PolyAn	2D 104-00-221	Slides. In this type of slides the surface is more hydrophobic (compared to Corning slides) therefore the glycans Print Buffer would need to be supplemented with 0.005% Tween-20 to obtain 100 µm size spots.
384-well microtiter plate	Genetix	2070	Printing plate
VWR lab marker	VWR	52877-310	Slide labeling
Staining Tube	ArrayIt	MST	Slide developing tool
Staining bath	VWR	25608-904	Slide developing tool

Slides glass holders	VWR	631-9321	Slide developing tool
GenePix Scanner	Molecular devices	4000B	Slide scanner
LM-60 NanoPrinter	ArrayIt	LM-60	Array printer
Pins	ArrayIt	946MP3	Printing pins
ProPlate Module	Grace Bio-Labs	P37004	Slide developing module
Distilled water	Bio-Lab	2321020500	Required for arrayer and humidifier
Electronic Multi Pippete, 8 Channel , volume range 2-125 $\mu$ L	Thermo-Fisher Scientific (Matrix)	MA-2131 Impact2 Equalizer 384	Multi pippete for sample dispansing into 384-well plate