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# ab272786

## Lectin Array 70 – Array Map

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Lectin Array 70 Kit datasheet:

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For identification of the specific glycan binding proteins in serum, plasma, cell culture supernatants or cell/tissue lysates.

This product is for research use only and is not intended for diagnostic use.

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## 1. Overview

Lectin Array 70 (ab272786) uses standard glass slides each spotted with 14 wells of identical lectin arrays.

Lectins are glycan-binding proteins which have been purified from trees, beans and some fruits. They are highly specific for a given glycan based on their sequence and the different sugar unit structures the glycan contains. For Lectin Array 70 (ab272786) one standard glass slide is spotted with 14 identical lectin arrays, 1 in each well. Each lectin, together with the positive controls is arrayed in duplicate. The slide comes with a 16-well removable gasket which allows for the processing of 14 samples using one slide. Four slides can be nested into a tray, which matches a standard microplate and allows for automated robotic high-throughput processing of 56 arrays simultaneously. This array provides a powerful new tool for glycosylation determination, drug discovery and biomarker development; all with limited sample volumes required.

## 2. Lectin Array Map

Each lectin is spotted in duplicate horizontally												
	A	B	C	D	E	F	G	H	I	J	K	L
1	POST1		POST2		NEG		NEG		AAA		AAL	
2	ACG		ACL		ASA		BanLec		BC2L-A		BC2LCN	
3	BPA		Calsepa		CGL2		CNL		Con A		DBA	
4	Discoidin I		Discoidin II		DSA		ECA		EEL		F17AG	
5	Gal1		Gal1-S		Gal2		Gal3		Gal3C-S		Gal7-S	
6	Gal9		GNA		GRFT		GS-I		GS-II		HHA	
7	Jacalin		LBA		Lch		LEA		Lentil		Lotus	
8	LSL-N		MAA		Malectin		MOA		MPL		NPA	
9	Oryzata		PA-III		PA-IL		PALa		PHA-E		PHA-L	
10	PHA-P		PNA		PPL		PSA		PSL1a		PTL	
11	RS-Fuc		SAMB		SBA		SJA		SNA-I		SNA-II	
12	STL		UDA		UEA-I		UEA-II		VFA		VVA	
13	WFA		WGA		NEG		NEG		POS2		POS1	

	<b>Lectins</b>	<b>Abbreviation</b>	<b>Source</b>	<b>Carbohydrate specificity</b>
1	<i>Anguilla anguilla</i>	AAA	<i>Anguilla anguilla</i> (Fresh Water Eel)	aFuc
2	<i>Aleuria aurantia</i>	AAL	<i>Aleuria aurantia</i> mushrooms	Fuca6GlcNAc
3	<i>Agrocybe cylindracea lectin</i>	ACG	E. coli expressed <i>Agrocybe cylindracea</i> galectin lectin	a2-3 Sialic Acid
4	<i>Amaranthus caudatus</i>	ACL, ACA	<i>Amaranthus caudatus</i> seeds	Galβ3GalNAc
5	<i>Allium sativum</i>	ASA	<i>Allium sativum</i> agglutinin (Garlic)	aMan
6	<i>Musa acuminata lectin</i>	BanLec	E. coli expressed <i>Musa acuminata</i>	Mannose, Glucose, branched high-mannose containing a1,3-glycoside bond
7	<i>Burkholderia cenocepacia lectin</i>	BC2L-A	E. coli expressed <i>Burkholderia cenocepacia</i>	High-mannose
8	<i>Burkholderia cenocepacia lectin</i>	BC2LCN (Ail ecS1)	E. coli expressed <i>Burkholderia cenocepacia</i>	Fuca1-2Galβ1-3GalNAc (H type 3), Fuca1-2Galβ1-3GlcNAc (H type 1)
9	<i>Bauhinia purpurea</i>	BPA, BLP	<i>Bauhinia purpurea alba</i> (Camel's Foot Tree) seeds	Galβ3GalNAc
10	<i>Calystegia sepium lectin</i>	Calsepa	E. coli expressed <i>Calystegia sepium</i>	High-mannose
11	<i>Coprinopsis cinerea lectin</i>	CGL2	E. coli expressed <i>Coprinopsis cinerea</i>	βGal, GalNAcα1-3Gal (Blood Group A), Gala1-3Gal (Blood Group B)
12	<i>Clitocybe nebularis lectin</i>	CNL	E. coli expressed <i>Clitocybe nebularis</i>	α/βGalNAc, GalNAcβ1-4GlcNAc, GalNAcα1-3[Fuca1-2]Galβ1-4GlcNAc (Blood Group A)
13	Coanavalin A	Con A	<i>Coanavalia ensiformis</i> (Jack Beans) seeds	aMan, aGlc
14	<i>Dolichos biflorus</i>	DBA	<i>Dolichos biflorus</i> (Horse Gram) seeds	aGalNAc
15	<i>Dictyostelium discoideum lectin</i>	Discoidin I	E. coli expressed <i>Dictyostelium discoideum</i>	aGalNAc (Tn antigen), LacNAc

	<b>Lectins</b>	<b>Abbreviation</b>	<b>Source</b>	<b>Carbohydrate specificity</b>
16	<i>Dictyostelium discoideum</i> lectin	Discoidin II	<i>E. coli</i> expressed <i>Dictyostelium discoideum</i>	Gal, LacNAc, Asialoglycans, Gal/GalNAc $\beta$ 1-4GlcNAc $\beta$ 1-6Gal/GalNAc
17	<i>Datura stramonium</i>	DSA, DSL	<i>Datura stramonium</i> (Thorn Apple, Jimson Weed) seeds	(GlcNAc) <sub>2-4</sub>
18	<i>Erythrina cristagalli</i>	ECA, ECL	<i>Erythrina cristagalli</i> (Coral Tree) seeds	Gal $\beta$ 4GlcNAc
19	<i>Eunonymus europaeus</i>	EEL	<i>Eunonymus europaeus</i> (Spindle Tree) seeds	Gala3Gal
20	<i>E. coli</i> lectin	F17AG	<i>E. coli</i> expressed <i>E. coli</i>	GlcNAc
21	Human galectin1 lectin (stable form)	Gal1	<i>E. coli</i> expressed human galectin1 (stable form)	branched LacNAc, Gal
22	Human galectin1-S lectin	Gal1-S	<i>E. coli</i> expressed human galectin1-S	branched LacNAc
23	Human galectin2 lectin	Gal2	<i>E. coli</i> expressed human galectin2	GalNAca1-3Gal (Blood Group A), branched LacNAc
24	Human galectin3 lectin (full-length)	Gal3	<i>E. coli</i> expressed Human galectin3(full-length)	poly LacNAc
25	Human galectin 3C-S lectin	Gal3C-S	<i>E. coli</i> expressed Human galectin 3C-S	poly LacNAc
26	Human galectin7-S lectin	Gal7-S	<i>E. coli</i> expressed Human galectin7-S	Gal $\beta$ 1-3GlcNAc
27	Human galectin9 lectin (Stable Form)	Gal9	<i>E. coli</i> expressed human galectin9	poly LacNAc, GalNAca1-3Gal (Blood Group A)
28	<i>Galanthus nivalis</i>	GNA, GNL	<i>Galanthus nivalis</i> (Snowdrop) bulbs	aMan
29	<i>Griffithia sp. Lectin</i>	GRFT	<i>E. coli</i> expressed <i>Griffithia sp.</i>	High-mannose
30	<i>Griffonia (Banderaea) simplicifolia I</i>	GS-I, GSL-II, BSL-I	<i>Griffonia (Banderaea) simplicifolia</i> seeds	aGal, a3GalNAc

	<b>Lectins</b>	<b>Abbreviation</b>	<b>Source</b>	<b>Carbohydrate specificity</b>
31	<i>Griffonia (Branderaea)</i>	GS-II, GSL-II, BSL-II	<i>Griffonia (Banderaea) simplicifolia</i> seeds	a or $\beta$ GlcNAc
32	<i>Hippeastrum hybrid</i>	HHA, HHL, AL	<i>Hippeastrum</i> hybrid (Amaryllis) bulbs	aMan
33	Jacalin	Jacalin, AIL	<i>Artocarpus integrifolia</i> (Jackfruit) seeds	Gal $\beta$ 3GalNAc
34	<i>Phaseolus lunatus</i>	LBA	<i>Phaseolus lunatus</i> (Lima Bean) seeds	GalNAc $\alpha$ (1,3)[aFuc(1,2)]Gal
35	<i>Lens Culinaris</i>	LcH, LCA	<i>Lens culinaris</i> (lentil) seeds	aMan, aGlc
36	<i>Lycopersicon esculentum</i>	LEA, LEL, TL	<i>Lycopersicon esculentum</i> (tomato) fruit	(GlcNAc) <sub>2-4</sub>
37	Lentil lectin	Lentil	<i>Lens culinaris</i> seeds	D-Mannose, D-glucose
38	<i>Lotus tetragonolobus</i>	Lotus, LTL	<i>Lotus tetragonolobus</i> , <i>Tetragonolobus purpurea</i> (Winged Pea, Asparagus Pea) seeds	aFuc
39	<i>Laetiporus sulphureus lectin</i>	LSL-N	E. coli expressed <i>Laetiporus sulphureus</i>	LacNAc, poly LacNAc
40	<i>Maackia amurensis</i> /	MAA, MAL, MAL-I	<i>Maackia amurensis</i> seeds	Gal $\beta$ 4GlcNAc
41	Human malectin lectin	Malectin	E. coli expressed human malectin	Glc <sub>2</sub> -N-biose
42	<i>Marasmius oreades lectin</i>	MOA	E. coli expressed <i>Marasmius oreades</i>	Gal $\alpha$ 1-3[Fuc $\alpha$ 1-2]Gal $\beta$ 1-4GlcNAc (Blood Group B) Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc, Gal $\alpha$ 1-3Gal
43	<i>Maclura pomifera</i>	MPL, MPA	<i>Maclura pomifera</i> (Osage Orange) seeds	Gal $\beta$ 3GalNAc
44	<i>Narcissus pseudonarcissus</i>	NPA, NPL, DL	<i>Narcissus pseudonarcissus</i> (Daffodil) bulbs	aMan
45	<i>Oryza sativa lectin</i>	Orysata	E. coli expressed <i>Oryza sativa</i>	High-mannose
46	<i>Pseudomonas aeruginosa</i>	PA-III	E. coli expressed <i>Pseudomonas</i>	Fucose, Fucose containing

	<b>Lectins</b>	<b>Abbreviation</b>	<b>Source</b>	<b>Carbohydrate specificity</b>
	<i>lectin</i>		<i>aeruginosa</i>	oligosaccharides, Mannose
47	<i>Pseudomonas aeruginosa lectin</i>	PA-IL	E. coli expressed <i>Pseudomonas aeruginosa</i>	Gala1-3(4)Gal
48	<i>Phlebodium aureum lectin</i>	PALa	E. coli expressed <i>Phlebodium aureum</i>	High-mannose
49	<i>Phaseolus vulgaris Erythroagglutinin</i>	PHA-E	<i>Phaseolus vulgaris Erythroagglutinin</i> (Red Kidney Bean) seeds)	Galβ4GlcNAcβ2Mana6(GlcNAcb4)(GlcNAcβ4Mana3)Manβ4
50	<i>Leucoagglutinin</i>	PHA-L	<i>Phaseolus vulgaris Erythroagglutinin</i> (Red Kidney Bean) seeds)	Galβ4GlcNAcβ6(GlcNAcβ2Mana3)Mana3
51	Phaseolus vulgaris agglutinin	PHA-P	<i>Phaseolus vulgaris Erythroagglutinin</i> (Red Kidney Bean) seeds)	Galβ4GlcNAcβ2Mana6(GlcNAcb4)(GlcNAcβ4Mana3)Manβ4, Galβ4GlcNAcβ6(GlcNAcβ2Mana3)Mana3
52	Peanut	PNA	<i>Arachis hypogaea Peanut</i>	Galβ3GalNAc
53	<i>Pleurocybella porrigens lectin</i>	PPL	E. coli expressed <i>Pleurocybella porrigens</i>	α/βGalNAc
54	<i>Pisum sativum</i>	PSA, PEA	<i>Pisum sativum</i> (Pea) seeds	αMan, αGlc
55	<i>Polyporus squamosus lectin</i>	PSL1a	E. coli expressed <i>Polyporus squamosus</i>	α2-6 Sialic Acid
56	<i>Psophocarpus</i>	PTL, PTL-I, WBA-I	<i>Psophocarpus tetragnoniobus</i> (Winged Bean) seeds	GalNAc, Gal
57	<i>Ralstonia solanacearum lectin</i>	RS-Fuc	E. coli expressed <i>Ralstonia solanacearum</i>	Fucose
58	Sambucus Sieboldiana Lectin	SAMB	Japanese elderberry	NeuAca2-6Gal/GalNAc
59	Soybean	SBA	<i>Glycine max</i> (Soybean) seeds	α > βGalNAc
60	<i>Sophora japonica</i>	SJA	<i>Sophora japonica</i> (Japanese Pagoda Tree) seeds	βGalNAc

	Lectins	Abbreviation	Source	Carbohydrate specificity
61	<i>Sambucus nigra I</i>	SNA-I	<i>Sambucus nigra</i> (Elderberry) bark	NANAA(2,6)GalNAc > GalNAc = Lac > GalNANAA(2,6)Gal
62	<i>Sambucus nigra II</i>	SNA-II	<i>Sambucus nigra</i> (Elderberry) bark	GalNAc > Gal
63	<i>Solanum tuberosum</i>	STL, PL	<i>Solanum tuberosum</i> , (potato) tubers	(GlcNAc) <sub>2-4</sub>
64	<i>Urtica dioica</i>	UDA	<i>Urtica dioica</i> (Stinging Nettle) seeds	GlcNAc
65	<i>Ulex europaeus I</i>	UEA-I	<i>Ulex europaeus</i> (Furze Gorse) seeds	αFuc
66	<i>Ulex europaeus II</i>	UEA-II	<i>Ulex europaeus</i> (Furze Gorse) seeds	Poly β(1,4)GlcNAc
67	<i>Vicia faba</i>	VFA	<i>Vicia faba</i> (Fava Bean) seeds	αMan
68	<i>Vicia villosa</i>	VVA, VVL	<i>Vicia villosa</i> (Hairy Vetch) seeds	GalNAc
69	<i>Wisteria floribunda</i>	WFA	<i>Wisteria floribunda</i> (Japanese Wisteria) seeds	GalNAc
70	Wheat Germ	WGA	<i>Triticum vulgare</i> (Wheat Germ)	GlcNAc

### Sugar Abbreviations:

Fuc: L-Fucose

Gal: D-Galactose

GalNAc: N-Acetylgalactosamine

Glc: D-Glucose

GlcNAc: N-Acetylglucosamine

Lac: Lactose

Man: Mannose

### 3. Notes



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