

Binding specificities of the 40 lectins

ID	Lectin	Binding Specificity	ID	Lectin	Binding Specificity	ID	Lectin	Binding Specificity
NL1	AAL	Fucose-containing glycans; no binding to fucose on Blood Group A and B antigens except minor binding to type 2 antigens.	NL14	HHL	High Mannose N-glycans; Weak binding to Complex (non-bisecting GlcNAc) N-Glycans and other mannose polysaccharides; no binding to bisecting N-glycans.	NL27	PTA	Blood Group H antigens except Type 1.
NL2	AIA	O-glycans containing following motifs: T antigen (Core 1); Tn antigen; O-GalNAc Core 3; no binding to STn, Core 2, Core 4 and Core 6 O-GalNAc glycans, Blood Group ABH Antigens Type 3.	NL15	HPA	Terminal GalNAc; weak binding to T antigen; no binding to Sd ^a antigen, Blood Group A Antigen. Similar to HAA.	NL28	RCA-I	Terminal β 1,4-Gal (β 1,3 and β 1,6 also accepted); no binding with terminal α 2,3 sialic acid, or to T antigen or Lewis X; still binds to β 1,4-Gal capped with terminal α 2,6 sialic acid or 6'-sulfate.
NL3	BC2L-C	Fucose; no or weak binding to Blood Group A and B type 2 antigens.	NL16	LCA	Core-fucose N-glycans; High-mannose N-glycans.	NL29	RPA	Complex N-Glycans: Tetra-antennary > Tri-antennary; weak binding to Poly-LacNAc extended bi-antennary; no other bi-antennary N-Glycan binding.
NL4	BPL	Terminal β -Gal/ β -GalNAc: PolyLacNAc > Mono/Di LacNAc. Sialic acid attached to Gal shields the binding. Fucose attached to GlcNAc allows the binding; no binding to Blood Group Antigens.	NL17	LEL	LacNAc including Blood Group ABH antigens; weak binding to High-mannose N-glycans; α 2,3-sialylated type 2 poly-LacNAc glycans.	NL30	RSL	Fucose-containing glycans; includes all blood group fucose, core fucose N-glycans, and Lewis A/X Fucose
NL5	Calsepa	Bind to N-glycans; no difference between bisecting N-glycans, complex N-glycans and core-fucose N-glycans.	NL18	LTA	Terminal Fuc α 1-3GlcNAc; Lewis X; Lewis Y; Blood Group H disaccharide, Type 2 and 6.	NL31	SBA	Terminal α -GalNAc or β -GalNAc; Tn antigen; MUC-1 glycopeptides.
NL6	ConA	High-mannose, complex, hybrid, bisecting N-glycans; no binding to tri- and tetra-antennary N-glycans.	NL19	MAL-I	Terminal Neu5Ac(or Neu5Gc) α 2-3Gal β 1-4GlcNAc(or Glc), or 3'-sulfated LacNAc or Lactose; weak binding to asialo-glycans; no binding to SLeX or Sd ^a antigen.	NL32	SNA	Terminal Neu5Ac(or Neu5Gc) α 2-6Gal β 1-4; no asialo-glycan binding.
NL7	DBA	Glycans with Sd ^a antigen motif (e.g., GM2); Blood Group A antigen.	NL20	MAL-II	Terminal Neu5Ac(or Neu5Gc) α 2-3Gal β 1-4GlcNAc(or Glc), or 3'-sulfated LacNAc or Lactose; weak binding to asialo-glycans; no binding to SLeX or Sd ^a antigen.	NL33	STL	Gal β 1-4GlcNAc (type 2 poly-LacNAc) with weak partial-epitope binding; weak binding to high-mannose N-glycans (GlcNAcB1-4GlcNAc epitope); bind to Blood Group ABH antigens type 2.
NL8	DSA	Type 2 LacNAc; (GlcNAc β 1-4) ₂ and some extended epitopes; bind to Blood Group antigen A, B, H, Type 2.	NL21	Morniga G	High-mannose N-glycan > Poly-LacNAc N-glycan > Tri-antennary N-glycans	NL34	UEA-I	Fuc α 1-2Gal β 1-4GlcNAc (Blood Group H Type 2, 5, 6, disaccharide); Lewis Y; α 1,4-Fuc.
NL9	ECL	Terminal β 1,4-Gal; no binding to Lewis X glycan; bind to Blood Group Antigen H Type 2.	NL22	NPA	High-mannose N-glycans > Hybrid N-glycans > Core-fucose N-glycans	NL35	VVL	Tn antigen; weak binding to blood group antigen A.
NL10	GNA	Exposed α 1,3-Man on N-glycans	NL23	PHA-E	Complex N-glycans; no high-mannose N-glycan binding	NL36	WFA	Terminal GalNAc; terminal β -Gal on LacNAc; no binding to Lewis X; bind to Sd ^a antigen; no T antigen binding.
NL11	GSI-B4	Terminal α 1,3-Gal (or weaker α 1,4-Gal); bind to Blood Group B Antigens.	NL24	PHA-L	Bisecting N-glycans	NL37	WGA	GlcNAc; terminal and exposed α 2,3-Neu5Ac; terminal and exposed α -GalNAc; no binding to Lewis X; no binding with terminal α 2,6 sialic acid.
NL12	GSII	Terminal GlcNAc	NL25	PNA	Gal β 1-3GalNAc (T antigen)	NL38	RPL-Sia2	Neu5Ac α 2-3Gal β 1-3GalNAc glycans (e.g. ST antigen)
NL13	HAA	Terminal α -GalNAc: Blood Group A > GalNAc α 1-3GalNAc β > All other α -GalNAc; Similar to HPA.	NL26	PSA	Core Fucose N-glycans (Fuc α 1-6GlcNAc); high-mannose N-glycans	NL39	RPL-Man2	High-mannose or Hybrid N-glycans
						NL40	RPL- α Gal	Terminal α -Gal glycans