

Table S2 Glycan peptides and glycan compositions derived from PLAG3 domain of 3 kinds of PDPN-Fcs, relate to Figure 6

Sialyltransferase			Detected Sugar				None	ST3Gal1,ST6GalNAc3	ST3Gal1,ST6GalNAc3,ST8Sia6	
Glycopeptide	RT	Observed	Charge	HexNAc	Hex	NeuAc	PDPN-Fc	PDPN-Fc	PDPN-Fc	
Peptide sequence	(min)	m/z					Intensity	Intensity	Intensity	
DDVVTPGTSE										
	10.1	611.77	2	1	0	0	○	○	○	
	11.7	757.32	2	1	0	1	○	5558	○ 1736198	○ 368335
	12.5	778.32	2	1	0	1			○ 9261	★
	11.9	923.86	2	1	0	2			○ 18569	★
	11.8	1039.41	2	1	0	3			○ 6067	*
	11.6	838.35	2	1	1	1	○	321136	○ 3392	
	11.0	983.89	2	1	1	2	○	152703	○ 7052	○ 3322
	11.2	753.30	3	1	1	3			○ 4700	★
	11.3	713.30	2	2	0	0			○ 3351	★
	11.6	858.85	2	2	0	1		○ 2362	○ 3678	
	11.2	1004.40	2	2	0	2		○ 11181		
	11.5	766.97	3	2	0	3			○ 5597	★
	11.7	864.00	3	2	0	4			○ 2475	★
	11.1	794.34	2	2	1	0	○	14736		
	10.9	939.88	2	2	1	1	○	2253		
	11.1	820.99	3	2	1	3		○ 7130		
	11.1	875.36	2	2	2	0	○	216829		
	11.0	777.97	3	2	2	2	○	39170		
	10.5	895.88	2	3	1	0	○	14989		
	10.6	899.69	3	3	3	2	○	11317		
	10.5	996.72	3	3	3	3	○	6257		
	9.6	827.33	3	4	4	0	○	4622		
	10.3	1021.40	3	4	4	2	○	18158		

PLAG3 domain peptide (DDVVTPGTSE) was predicted to be a Siglec-7 ligand glycan carrier. Three types of PDPN-Fc were analyzed by mass spectrometry. ST3Gal1(ST3-1), ST6GalNAc3 (ST6-3) and ST8Sia6 (ST8-6)-PDPN-Fc bound with Siglec-7 but none or ST3-1 and ST6-3-PDPN-Fc did not. Black filled stars indicate glycopeptides that are exclusively identified in ST3-1, ST6-3 and ST8-6-PDPN-Fc. RT; Retention Time. TIC; Total ion chromatograph. *This configuration is impossible structurally, although it is possible due to mass calculations.