

Blocking Mab; mean % binding inhibition (n)	Isotype controls	Anti siglec 1	Anti Siglec 3	Anti Siglec 7	Anti Siglec 9	Anti CD45	Anti CD36	Anti TGFβRII
Monocytes	0 (12)	0 (3)	18 (3)	4 (3)	86 (7)	0 (3)	0 (2)	0 (2)
MCSF MΦ	0 (9)	0 (3)	12 (3)	3 (3)	87 (4)	0 (3)	0 (2)	0 (2)

Supplementary Table 1 Table summarizing the mean % inhibition of MUC1-ST binding by the indicated antibodies (10µg/ml) to monocytes and MCSF MΦ (n number in brackets). % calculated by change in corrected MFI.

Assay Type	Antigen	Company	Clone / Cat. No / name	Dilution / conc	Ref.
N / FC	Siglec-1	Abcam	Hsn 7D2	10µg/ml	51
N	Siglec-3	Bio-techne	6C5/2	10µg/ml	52
N	Siglec-7	Bio-techne	AF1138	10µg/ml	53
N / ELISA	Siglec-9	Bio-techne	191240	10µg/ml	54
N	CD36	Santa Cruz	H-300	10µg/ml	55
N	TGFβRII	Bio-techne	AF-241	10µg/ml	56
N	CD45	Biolegend	HI30	10µg/ml	57
N	IL-6Rα	Roche	Tocilizumab	10µg/ml	58
N	PD-1	Merck	Pembrolizumab	10µg/ml	59
N	Isotype	Bio-techne	AB-105-C	10µg/ml	60
N	Isotype	Bio-techne	AB-108-C	10µg/ml	61
N; FC; ICC	Isotype	Bio-techne	11711	10µg/ml; 1/100; 1µg/ml	62
N	Isotype	Bio-techne	20102	10µg/ml	63
FC	Siglec-3 FITC	BD	P67.6	1/100	64
FC	Siglec-7 PE	Biolegend	6-434	1/100	65
FC	Siglec-9 PE	Bio-techne	191240	1/100	66
FC	Siglec-10 PE	Biolegend	5G6	1/100	67
FC	HLA-DR FITC	Beckman Coulter	B8.12.2	1/100	68
FC	CD16 FITC	Biolegend	B73.1	1/100	69
FC	CD14 FITC	BD	M5E2	1/100	70
FC	CD69 PE	Beckman Coulter	TP1.55.3	1/100	71
FC	CD25 FITC	Biolegend	BC96	1/100	72
FC	CD86 PE	Beckman Coulter	HA5.2B7	1/100	73
FC	CD40 FITC	BD	5C3	1/100	74
FC	CD83 PE	Beckman Coulter	HB15a	1/100	75
FC	CD163 PE	Biolegend	GHI/61	1/100	76
FC	CD45 PC5	Beckman Coulter	J.33	1/100	77
FC	CD206 PE	eBioscience	19.2	1/100	78
FC	PD-L1 PE	Biolegend	29E.2A3	1/100	79
ICC	MUC1	In house	HMFG2	1µg/ml	80
IB	SHP-1	Santa Cruz	C-19	1/500	81
IB	phospho-SHP-1	Abcam	Ab51171	1/500	82
ELISA	Phospho-tyrosine	Bio-techne	179003	0.75µg/ml	83

Supplementary table 2: List of antibodies. N, neutralization; FC, flow cytometry; ICC, immunocytochemistry; IB, immunoblot;