

Table S1. Antibodies for the MxIF panel.

Conjugate	Antibody name	Company	Catalog
Cy3	CD163	Bio-rad	MCA1853
Cy3	CD4	abcam	ab181724
Cy3	CD11C	abcam	ab216655
Cy3	MPO	abcam	ab221847
Cy5	NaKATPase	abcam	ab76020
Cy5	FOXP3	abcam	ab96048
Cy5	PDL1	abcam	ab221612
Cy5	CD3	abcam	ab17143
Cy5	CD16	abcam	ab215977
Cy3	CD11b	abcam	ab238794
Cy5	CD14	abcam	ab214438
Cy5	FASN	Cell Signaling	66058
Cy5	CD68	Epredia	MS-397P
Cy5	CD36	Cell Signaling	CS39914SF
Cy3	CD38	abcam	ab204940
Cy5	FAP	R&D Systems	AF3715
Cy3	CD209	abcam	ab218883
Cy3	CD8	Novus	NOVUA2PABX210601

Table S2. Cell classification model for statistical analysis with selected markers.

Surface markers	Cell types/Functional markers
CD3, CD4, CD8	T Cells
CD14, CD16, CD11c, CD209, CD206, CD163, CD68,	Macrophages
CD36, FASN, PDL1, FOXP3	Functional markers
CD20	B-Cells
MPO	Neutrophils

Table S3. CD36 cell expression spatial regression model results.

Comparison	Odds ratio	95% CI for OR	p-value
SLN (+) / SLN (-)	1.45	(0.25, 8.62)	0.6881
SLN (+) / Control LN	1.06	(0.19, 5.87)	0.953
SLN (-) / Control LN	0.74	(0.13, 4.25)	0.7261

Table S4. CD36 cell colocalization spatial regression model results in SLN (+) compared to SLN (-) and Control LN.

Comparison	Cell type	Odds ratio	95% CI for OR	p-value	FDR adjusted p-value
SLN (+) / SLN (-)	CD3	1.51	(0.61,3.76)	0.3753	0.5629
	CD4	1.72	(0.54,5.53)	0.3609	0.5629
	CD8	2.35	(0.52,10.63)	0.2667	0.4678
	CD14	3.84	(1.24,11.86)	0.0194	0.1259
	CD11C	2.91	(0.8,10.6)	0.1053	0.2239
	PDL1	6.12	(1.16,32.4)	0.0332	0.1576
	FOXP3	1.19	(0.44,3.21)	0.7387	0.8976
	CD209	6.48	(1.07,39.07)	0.0416	0.1621
	CD36	0.61	(0.42,0.88)	0.0091	0.1153
	FASN	0.29	(0.08,1.07)	0.0631	0.1966
	CD11B	0.85	(0.43,1.67)	0.6391	0.8308
	CD163	3.46	(1.41,8.48)	0.0066	0.1153
	CD68	3.9	(0.68,22.29)	0.1261	0.2458
SLN (+) / Control LN	CD3	0.49	(0.21,1.17)	0.1091	0.2239
	CD4	0.41	(0.14,1.21)	0.1065	0.2239
	CD8	0.45	(0.1,1.91)	0.2759	0.4678
	CD14	1.26	(0.44,3.59)	0.6689	0.8416
	CD11C	1.01	(0.3,3.45)	0.9889	0.9889
	PDL1	1.06	(0.22,5.14)	0.9377	0.978
	FOXP3	0.88	(0.34,2.23)	0.784	0.8993
	CD209	1.74	(0.31,9.9)	0.5313	0.7651
	CD36	0.98	(0.68,1.41)	0.924	0.978
	FASN	0.33	(0.09,1.18)	0.088	0.2239
	CD11B	0.83	(0.44,1.58)	0.5784	0.7779
	CD163	1.54	(0.65,3.63)	0.3288	0.5343
	CD68	0.77	(0.14,4.18)	0.7595	0.8976