

Supplementary Table 1

Rank#	Protein Symbol	Molecular Weight	Quantitative Value	Ran k#	Protein Symbol	Molecular Weight	Quantitative Value
1	Rspo3	31 kDa	78	41	Pkm	58 kDa	4
2	Alb	69 kDa	48	42	Ldha	35 kDa	5
3	Cep162	161 kDa	37	43	Ctsz	34 kDa	3
4	Grn	63 kDa	33	44	Ncl	77 kDa	4
5	Vim	54 kDa	25	45	Lgmn	49 kDa	4
6	Pclo	551 kDa	17	46	Col4a2	167 kDa	4
7	Actb	42 kDa	18	47	Tpi1	32 kDa	4
8	Sparc	38 kDa	18	48	Pgam1	29 kDa	3
9	Actn1	103 kDa	13	49	Flna	280 kDa	4
10	Psap	61 kDa	13	50	Calr	48 kDa	4
11	Plau	48 kDa	14	51	Eno1	47 kDa	4
12	Ctsb	37 kDa	14	52	Flnb	278 kDa	2
13	Ppia	18 kDa	12	53	Msn	68 kDa	4
14	Sacs	521 kDa	12	54	Eef2	95 kDa	2
15	Aldoa	45 kDa	7	55	Cd81	13 kDa	3
16	Hspg2	469 kDa	7	56	Kcnu1	127 kDa	1
17	Hspa8	71 kDa	12	57	Krt10	57 kDa	3
18	Ctsl	38 kDa	7	58	Pdia3	57 kDa	3
19	Fn1	263 kDa	9	59	Igfbp4	28 kDa	3
20	Plec	499 kDa	6	60	Pfn1	15 kDa	3
21	Ywhaz	28 kDa	9	61	Pdia6	48 kDa	3
22	Fbln5	52 kDa	7	62	Cst3	16 kDa	2
23	Ctsd	45 kDa	6	63	Ahnak2	183 kDa	3
24	Ctsa	56 kDa	7	64	Fstl1	35 kDa	3
25	Lgals1	15 kDa	7	65	Cpe	53 kDa	2
26	Pgk1	45 kDa	6	66	Ap1p2	71 kDa	2
27	Hnrnpa1	34 kDa	5	67	Wdr1	63 kDa	2
28	Col18a1	182 kDa	5	68	Acaa2	42 kDa	3
29	Hspa5	72 kDa	9	69	Plbd2	66 kDa	2
30	Cdh5	88 kDa	6	70	Ywhag	28 kDa	4
31	Ahnak	604 kDa	6	71	Ywhae	29 kDa	4
32	Tpm3	29 kDa	5	72	Nptx1	47 kDa	2
33	Tuba1b	50 kDa	5	73	Fkbp1a	12 kDa	2
34	Ecm1	63 kDa	4	74	Lgals3bp	64 kDa	2
35	Tubb3	50 kDa	2	75	Ppic	23 kDa	2
36	Arsa	54 kDa	4	76	Tie1	70 kDa	2
37	D17H6S56 E-5	66 kDa	5	77	Qsox1	83 kDa	2
38	Adamts1	106 kDa	2	78	Nucb1	53 kDa	2

39	Gm8797	9 kDa	5	79	Tagln2	22 kDa	2
40	Hnrnpa2b1	36 kDa	5	80	Ywhah	28 kDa	3
83	Lamc1	177 kDa	1	120	Calu	37 kDa	1
84	Gsto1	27 kDa	1	121	Prdx6	22 kDa	1
85	Myh9	226 kDa	1	122	Dpysl2	62 kDa	1
86	Nid1	137 kDa	1	123	Eef1a1	50 kDa	1
87	Ctsh	32 kDa	1	124	Hsp90b1	92 kDa	1
88	Hmga2	12 kDa	1	125	Igfbp3	32 kDa	1
89	Krt78	55 kDa	3	126	Kpnb1	97 kDa	1
90	Eef1b2	20 kDa	2	127	Krt77	61 kDa	1
91	Mdh2	21 kDa	2	128	Lmna	74 kDa	1
92	Vcam1	26 kDa	2	129	P4hb	57 kDa	1
93	Col4a1	34 kDa	1	130	Stip1	63 kDa	1
94	Erh	8 kDa	2	131	Hnrmpu	58 kDa	1
95	Cd93	37 kDa	2	132	Stc1	27 kDa	1
96	Dbi	10 kDa	1	133	Rps6	29 kDa	1
97	Pecam1	82 kDa	2	134	Rtn4	39 kDa	1
98	Pxdn	165 kDa	2	135	Fst	38 kDa	1
99	Casq2	50 kDa	2	136	Eef1g	50 kDa	1
100	Calm1	17 kDa	2	137	Csl	52 kDa	1
101	Cavin1	44 kDa	2	138	Rpl4	47 kDa	1
102	Procr	27 kDa	2	139	Npm1	28 kDa	1
103	Pebp1	21 kDa	2	140	Ctla2a	16 kDa	1
104	Tpt1	19 kDa	2	141	Ppib	24 kDa	1
105	Capg	39 kDa	2	142	Gapdh	39 kDa	1
106	Ptges3	15 kDa	1	143	Banf1	10 kDa	1
107	Tnc	172 kDa	2	144	S100a6	10 kDa	1
108	Abcc2	174 kDa	1	145	Cdh13	78 kDa	1
109	Atp5f1b	56 kDa	1	146	Lyve1	35 kDa	1
110	Kcnma1	131 kDa	1	147	Lama5	404 kDa	1
111	Gm14781	43 kDa	1	148	Krt76	63 kDa	2
112	Stat2	106 kDa	1	149	Tpm4	28 kDa	1
113	Krt79	58 kDa	2	150	Cd34	41 kDa	1
114	Prcp	51 kDa	1	151	Rpl12	18 kDa	1
115	Rpl18	18 kDa	1	152	Polr1a	85 kDa	1
116	Idh3a	42 kDa	1	153	Atp5f1a	60 kDa	1
117	Cd63	18 kDa	1	154	Nav2	61 kDa	1
118	Pgf	18 kDa	1	155	Rplp0	16 kDa	1
119	B2m	14 kDa	1				

Supplementary Table 1: Proteins identified by secretome assay.

Conditional medium collected from LPS-activated ECs was used for secretome assay by mass spectrometry, identified proteins were listed by their quantified values as normalized to total spectra.

Supplementary Table 2

Gene	Forward primer	Reverse primer	usage
<i>Cd86</i>	CAGACTCCTGTAGACGTGTTCC	GTCCCATTTGAAATAAGCTTGCG	qPCR
<i>Mrc1</i>	CCACGGATGACCTGTGCTCGA G	ACACCAGAGCCATCCGTCCGA	qPCR
<i>Retnla</i>	TGCCAATCCAGCTAACTATCCC	CAGTGGTCCAGTCAACGAGT	qPCR
<i>Chil3</i>	CAGGTCTGGCAATCTTCTGAA	GTCTTGCTCATGTGTGTAAGTG A	qPCR
<i>Arg1</i>	CTCCAAGCCAAAGTCCTTAGA G	AGGAGCTGTCATTAGGGACAT C	qPCR
<i>Il1b</i>	GAAATGCCACCTTTTGACAGTG	TGGATGCTCTCATCAGGACAG	qPCR
<i>Tnf</i>	CCCTCACACTCAGATCATCTTC T	GCTACGACGTGGGCTACAG	qPCR
<i>Lgr4</i>	CCCGACTTCGCATTCACCAA	GCCTGAGGAAATTCATCCAAG T	qPCR
<i>Lgr5</i>	CCTACTCGAAGACTTACCCAGT	GCATTGGGGTGAATGATAGCA	qPCR
<i>Lgr6</i>	GAGGACGGCATCATGCTGTC	GCTCCGTGAGGTTGTTTCATACT	qPCR
<i>Tet1</i>	CCCTGTGACTGTGATGGAGG	GTCTACACGCTCACGAACCA	qPCR
<i>Tet2</i>	ATATTGATGCGGAGGCGAGG	AATGAATCCAGCAGCACCGT	qPCR
<i>Tet3</i>	TGCGATTGTGTCGAACAAATAG T	TCCATACCGATCCTCCATGAG	qPCR
<i>Rspo3</i>	CAACCAGCGAGACAAGAACT	TCCAAACCTTTGCTGTCAGAG	qPCR
<i>Gapdh</i>	AGGTCGGTGTGAACGGATTTG	TGTAGACCATGTAGTTGAGGT C	qPCR
<i>Itgam</i>	ATGGACGCTGATGGCAATACC	TCCCCATTCACGTCTCCCA	qPCR
<i>Pparg</i>	TCGCTGATGCACTGCCTATG	GAGAGGTCCACAGAGCTGATT	qPCR
<i>Itgax</i>	CTGGATAGCCTTTCTTCTGCTG	GCACACTGTGTCCGAACCTCA	qPCR
<i>Adgre1</i>	TTGTACGTGCAACTCAGGACT	GATCCCAGAGTGTGATGCAA	qPCR
<i>Fcgr1</i>	AGTTTCTCAATGCCAAGTGA	GCGACCTCCGAATCTGAAGA	qPCR
<i>Mertk</i>	ACCCAGTTGCTAGAGAGCTG	TGGTGAGTCTGTCTCCGGTAA	qPCR
<i>Ctnnb1</i>	ATGGAGCCGGACAGAAAAGC	CTTGCCACTCAGGGAAGGA	qPCR
<i>Cx3cr1</i>	GAGTATGACGATTCTGCTGAG G	CAGACCGAACGTGAAGACGAG	qPCR
<i>Cxcl1</i>	CTGGGATTCACCTCAAGAACAT C	CAGGGTCAAGGCAAGCCTC	qPCR
<i>Nos2</i>	GTTCTCAGCCCAACAATACAAG A	GTGGACGGTTCGATGTCAC	qPCR
<i>Siglecf</i>	GCTGGTCTTATGGCCTTGCTT	TGCTAACAGAAACAATGGGCA	qPCR
<i>Cd80</i>	ACCCCAACATAACTGAGTCT	TTCCAACCAAGAGAAGCGAGG	qPCR
<i>Cd69</i>	AGGCTTGACGAGAAGTTGGA	AGTTCACCAGAATATCGCTTCA G	qPCR
<i>Il6</i>	CTGCAAGAGACTTCCATCCAG	AGTGGTATAGACAGGTCTGTT GG	qPCR
<i>Il10</i>	GCTCTTACTGACTGGCATGAG	CGCAGCTCTAGGAGCATGTG	qPCR
<i>Clec7a</i>	GACTTCAGCACTCAAGACATC C	TTGTGTGCGCCAAAATGCTAGG	qPCR
<i>Clec10a</i>	TGAGAAAGGCTTTAAGAAGTGG GG	GACCACCTGTAGTGATGTGGG	qPCR
<i>Tgfb1</i>	CTCCCGTGGCTTCTAGTGC	GCCTTAGTTTGGACAGGATCT G	qPCR
<i>Mrc1</i>	TTTCACTTGAAGGTAAACCATC TG	CCAGAGTTCAACAAGAATTAAG	hMeDIP/ ChIP-qP CR
<i>Arg1</i>	TGAACAGGCTGTATTAGCCAA CA	AGCACCTCAACCCAAAGTG	hMeDIP/ ChIP-qP CR
<i>Chil3</i>	CATTTGCCCTGCCTTTGG	TCTTTTCATGGATATTGATTTCC TAA	hMeDIP/ ChIP-qP CR
<i>Retnla</i>	TGCAATTCTTTGATGCTGTGTC T	TTGTGTCCCTTGGCTACATGAA	hMeDIP/ ChIP-qP CR

Supplementary Table 2: Primer sequences used in this study.

The sequences for primers used for qPCR, ChIP-qPCR and hMeDIP-qPCR in this study.

Supplementary Table 3

Antibodies	Source	Cat#	Dilution
FITC anti-mouse CD11b Antibody	BioLegend	101205	1:200
APC anti-mouse CD11b Antibody	BioLegend	101211	1:200
PE anti-mouse CD11b Antibody	BioLegend	101207	1:200
APC anti-mouse F4/80 Antibody	BioLegend	123115	1:200
FITC anti-mouse F4/80 Antibody	BioLegend	123107	1:200
PE anti-mouse F4/80 Antibody	BioLegend	123109	1:200
APC anti-mouse CD64 Antibody	BioLegend	139305	1:100
FITC anti-mouse CD64 Antibody	BioLegend	139315	1:100
PE anti-mouse CD64 Antibody	BioLegend	139303	1:100
Alexa Fluor® 647 anti-mouse CD64 Antibody	BioLegend	139321	1:100
APC anti-mouse CD206 Antibody	BioLegend	141707	1:200
Alexa Fluor 488 anti-mouse CD206 Antibody	BioLegend	141709	1:200
PE anti-mouse CD206 Antibody	BioLegend	141705	1:200
Alexa Fluor 700 anti-mouse CD206 Antibody	BioLegend	141733	1:200
PE anti-mouse CD86 Antibody	BioLegend	159203	1:100
Alexa Fluor 700 anti-mouse CD86 Antibody	BioLegend	105023	1:100
Pacific Blue anti-mouse CD86 Antibody	BioLegend	105021	1:100
APC anti-mouse CD301 Antibody	BioLegend	145707	1:100
Pacific Blue anti-mouse CD301 Antibody	BioLegend	145709	1:100
anti-Arginase1 Antibody	Novus	MAB58681	1:100
APC anti-mouse CD80 Antibody	BioLegend	104713	1:100
Purified anti-mouse CD80 Antibody	BioLegend	104702	1:100
PerCP/Cyanine5.5 anti-mouse CD80 Antibody	BioLegend	104721	1:100
anti-mouse TNF α Antibody	Novus	MAB4101	1:100
Purified anti-NOS2 Antibody	BioLegend	690902	1:100
PE anti-mouse IL-10 Antibody	BioLegend	505007	1:50
PE anti-mouse TET2 Antibody	Cell Signaling Tech	79468	1:50
PE anti- β -Catenin Antibody	BioLegend	844605	1:100
Alexa Fluor 488 anti- β -Catenin Antibody	Novus	NBP1-54467F	1:50
anti-LGR4 Antibody	R&D	FAB7750P-025	1:100
anti-LGR5 Antibody	R&D	MAB8240	1:100
anti-LGR6 Antibody	Novus	918719	1:100
Purified anti-Rspondin3 Antibody	ThermoFisher	PA5-38052	1:200
Pacific Blue anti-mouse CD45 Antibody	BioLegend	103125	1:100
PE/Cy5 anti-mouse CD45 Antibody	BioLegend	103109	1:100
Brilliant Violet 605 anti-mouse Ly6G Antibody	BioLegend	127639	1:100
PerCP anti-mouse Ly6G Antibody	BioLegend	127653	1:100
PE anti-mouse Siglec-F Antibody	BioLegend	155505	1:200
APC/Cy7 anti-mouse Siglec-F Antibody	BDBiosciences	565527	1:200
APC anti-mouse MERTK Antibody	BioLegend	151507	1:100
FITC anti-mouse MERTK Antibody	BioLegend	151503	1:100
PE anti-mouse MERTK Antibody	BioLegend	151505	1:100

Supplementary Table 3: Antibodies used for flow cytometry in this study.

The sources of antibodies used for flow cytometry as well as their dilution ratios were listed in this table.

Supplementary Table 4

Target antigen	Metal Tag	Clone	Company	Catalog number	Titer to use	
CD11b	148Nd	M1/70	Fluidigm	3148003	1:100	
F4/80	159Tb	BM8	Fluidigm	3159009	1:100	
CD64	151Eu	X54-5/7.1	Fluidigm	3151012	1:100	
MerTK	147Sm	2B10C42	Biolegend	151502	0.5 µg/ml	self-labeled
Ly6-G	141Pr	1A8	Fluidigm	3141008	1:100	
Ly6-C	162Dy	HK1.4	Fluidigm	3162014	1:100	
CD24	150Nd	M1/89	Fluidigm	3150009	1:100	
CD206	169Tm	C068C2	Fluidigm	3169021	1:100	
CD86	172Yb	GL1	Fluidigm	3171008	1:100	
CD301	155Gd	AAH14811	R&D	AF4297	0.5 µg/ml	
CD19	149Sm	6D5	Fluidigm	3149002	1:100	
CD3	152Sm	145-2C11	Fluidigm	3152004	1:100	
CD49	170Er	HMa2	Fluidigm	3170008	1:100	
SiglecF	176Yb	E50-2440	BD Biosciences	552125	0.5 µg/ml	self-labeled
CD11c	142Nd	N418	Fluidigm	3142003	1:100	
Arginase I	156Gd	P05089	R&D	AF5868	0.5 µg/ml	self-labeled
LGR4	153Eu	BBX-3A8	Abcam	ab166659	0.5 µg/ml	self-labeled
β-Catenin	165Ho	D13A1	Fluidigm	3165027	1:100	
TER119	154Sm	TER-119	Fluidigm	3154005	1:100	
IL-10	158Gd	JES5-16E3	Fluidigm	3158002	1:100	
iNOS	161Dy	CXNFT	Fluidigm	3161011	1:100	
TNF	162Dy	MP6-XT22	Fluidigm	3162002	1:100	
CX3CR1	164Dy	SA011F11	Fluidigm	3164023	1:100	
GFP	169Tm	5F12.4	Fluidigm	3169009	1:100	
CD80	171Yb	16-10A1	Fluidigm	3171008	1:100	
I-A/I-E	209Bi	M5/114.15.2	Fluidigm	3209006	1:100	
CD45	89Y	30-F11	Fluidigm	3089005	1:100	
CD115	144Nd	AFS98	Fluidigm	3144012	1:100	
CD69	145Nd	H1.2F3	Fluidigm	3145005	1:100	
CCR2	146Nd	475301R	R&D	MAB55381R	0.5 µg/ml	self-labeled
BST-2	163Dy	44E9R	R&D	MAB8660	0.5 µg/ml	self-labeled
REMLα	168Er	Q9EP95	R&D	MAB1523	0.5 µg/ml	self-labeled
CD103	173Yb	Q60677	R&D	AF1990	0.5 µg/ml	self-labeled

Supplementary Table 4: Antibodies used for CyTOF (Mass Cytometry).

The antibodies used for CyTOF assay in this study as well as their dilution ratios in this study.