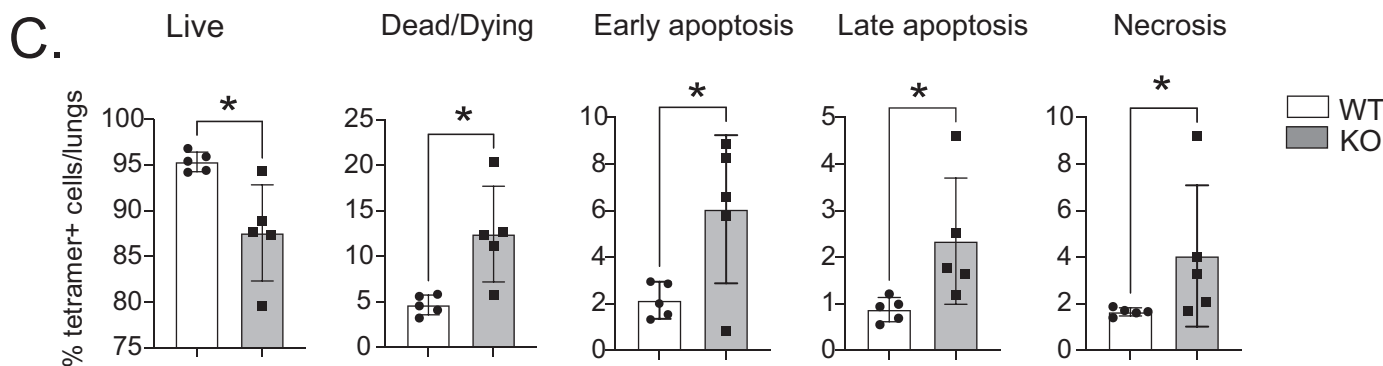
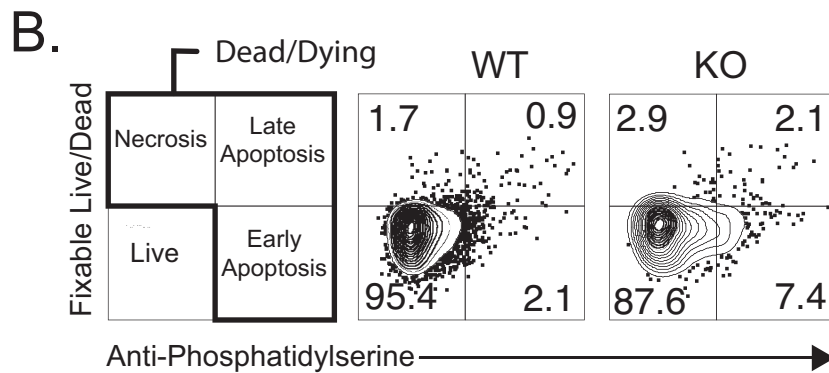
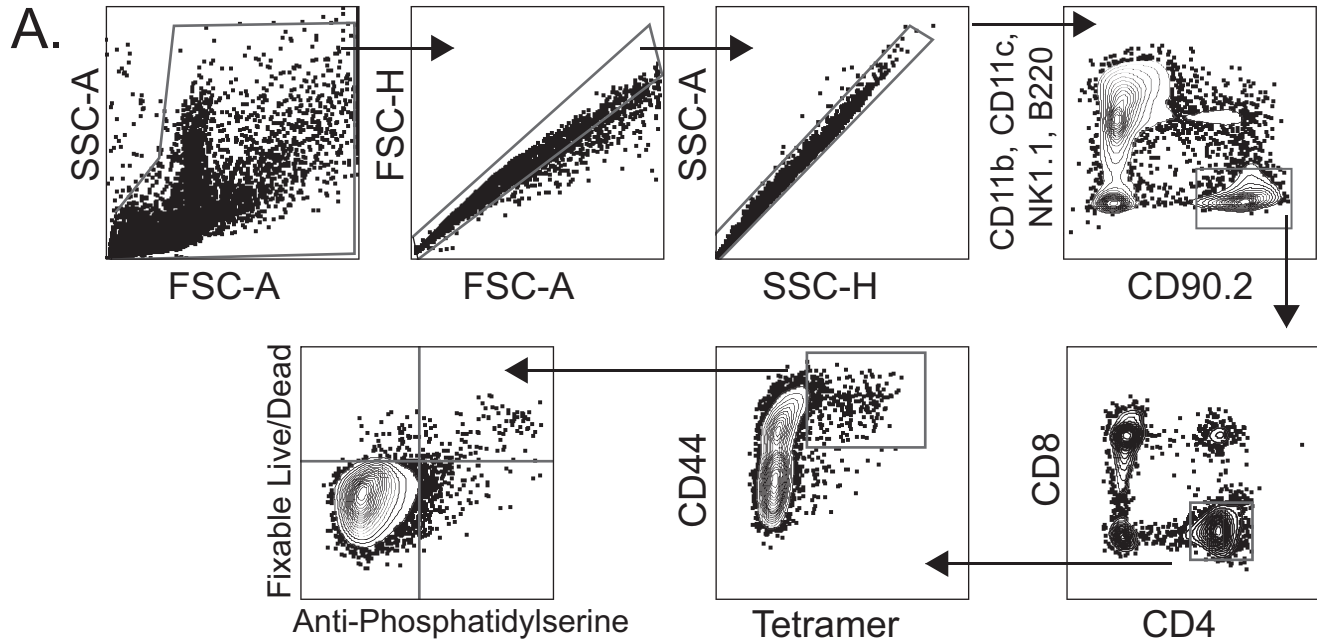


Supplementary Figure 1 to main Figure 5: Lung CFU and inflammation at day 4 post-infection. Vaccinated SLAMF1^{-/-} and SLAMF1^{+/+} mice were analyzed for lung CFU at day 4 post-infection (A) and leukocytes (CD45+ cells) enumerated in lung parenchyma vs. vasculature (B). Leukocyte populations were identified and enumerated as described elsewhere (32) and included B cells (CD19⁺), neutrophils (Ly6G⁺), monocytes (CD11b⁺, Ly6c⁺) and eosinophils (Siglec F⁺, CD11c⁻, CD64⁻). Populations were analyzed by FACS (C). n=5-15 mice/group. * = $p < .05$



Supplementary Figure 2 to main Figure 6: Gating strategy and cell death. Vaccinated mice were analyzed for apoptosis of tetramer+ cells at day 4 post-infection. (A) Gating strategy to determine the apoptotic state of tetramer+ cells. (B) Frequencies of live, early apoptotic, late apoptotic and necrotic tetramer+ cells. (C) Numbers of live, dead and dying cells (includes early and late apoptotic and necrotic cells) in SLAMF1^{-/-} and control mice. N=5 mice per group. Data is representative of three independent experiments (* p<0.05).

Vaccine yeast induce SLAMF1 expression in wild type but not Myd88^{-/-} and Card9^{-/-} BMDC

DMDC genes	WT medium	WT + yeast	Myd88 ^{-/-} medium	Myd88 ^{-/-} + yeast	Card9 ^{-/-} medium	Card9 ^{-/-} + yeast	n-fold WT	n-fold Myd88 ^{-/-}	n-fold Card9 ^{-/-}	WT/ Myd88	WT/ Card9
Hamp	38.0	4,607.8	29.4	489.6	40.1	432.6	121.2	16.6	10.8	7.3	11.2
Il33	72.8	4,557.1	75.1	1,784.7	123.4	1,694.3	62.6	23.8	13.7	2.6	4.6
Gm5416	20.7	1,113.8	16.8	421.7	19.3	41.4	53.7	25.1	2.1	2.1	25.1
Tmem22	52.0	1,019.3	68.0	526.3	44.8	231.2	19.6	7.7	5.2	2.5	3.8
Cxcl1	325.9	4,899.8	129.3	712.9	205.4	1,151.2	15.0	5.5	5.6	2.7	2.7
Csf3	123.9	1,850.1	114.7	646.3	100.6	169.9	14.9	5.6	1.7	2.6	8.8
Cxcl5	69.7	971.7	55.1	106.1	74.1	171.8	13.9	1.9	2.3	7.2	6.0
Penk	304.8	4,074.2	594.0	2,716.8	217.9	1,162.2	13.4	4.6	5.3	2.9	2.5
Il10	85.3	1,035.8	65.3	154.0	94.2	74.8	12.1	2.4	0.8	5.2	15.3
Slamf1	64.7	777.3	59.2	106.9	68.9	78.1	12.0	1.8	1.1	6.6	10.6
F3	619.1	6,820.1	1,506.6	6,011.6	887.5	3,961.3	11.0	4.0	4.5	2.8	2.5
Fam198b	224.2	2,409.0	440.8	2,176.5	334.2	1,237.8	10.7	4.9	3.7	2.2	2.9
Thbd	205.9	1,774.6	330.8	890.2	236.1	751.8	8.6	2.7	3.2	3.2	2.7
Itgb8	119.9	933.7	84.9	247.8	147.4	235.2	7.8	2.9	1.6	2.7	4.9
Csf2	34.7	240.3	38.9	59.8	42.4	39.3	6.9	1.5	0.9	4.5	7.5
Cish	114.7	739.6	144.1	461.8	147.8	271.4	6.5	3.2	1.8	2.0	3.5
Crhbp	118.6	697.6	112.4	235.8	91.9	175.4	5.9	2.1	1.9	2.8	3.1
Fgf23	79.1	412.7	94.7	130.5	74.1	119.8	5.2	1.4	1.6	3.8	3.2
Nnmt	100.2	498.3	100.0	189.2	125.7	201.2	5.0	1.9	1.6	2.6	3.1
Arhgef10	140.9	686.1	165.2	289.5	137.1	188.0	4.9	1.8	1.4	2.8	3.6
Gstt4	83.1	401.8	82.0	163.2	82.5	103.4	4.8	2.0	1.3	2.4	3.9
Calb2	44.6	212.8	41.1	56.0	50.9	61.1	4.8	1.4	1.2	3.5	4.0
Mpzl2	57.9	236.9	71.0	116.4	68.8	106.8	4.1	1.6	1.6	2.5	2.6
Heph1	61.4	247.7	61.0	101.2	57.0	83.7	4.0	1.7	1.5	2.4	2.7
Cd93	985.0	3,835.4	2,248.9	3,362.6	1,401.4	2,449.7	3.9	1.5	1.7	2.6	2.2
Mir1192	27.9	105.3	39.1	61.3	41.1	58.3	3.8	1.6	1.4	2.4	2.7
Crisp1	33.0	120.7	62.5	78.6	75.3	54.9	3.7	1.3	0.7	2.9	5.0
Gstt1	209.0	752.3	205.9	342.4	185.0	217.6	3.6	1.7	1.2	2.2	3.1
Enpp2	216.7	759.0	234.4	219.9	301.7	461.1	3.5	0.9	1.5	3.7	2.3
Rnf180	302.5	968.7	384.8	543.2	265.6	386.0	3.2	1.4	1.5	2.3	2.2
Stat5a	445.8	1,349.4	473.8	651.0	513.7	636.5	3.0	1.4	1.2	2.2	2.4
Armcx4	31.2	85.3	38.5	40.4	31.3	38.5	2.7	1.1	1.2	2.6	2.2
Cyp11a1	84.5	214.8	91.9	116.9	77.5	92.1	2.5	1.3	1.2	2.0	2.1
Cyp26b1	153.9	379.2	173.9	190.2	189.2	195.5	2.5	1.1	1.0	2.3	2.4
Ehd3	113.7	257.4	162.3	129.2	152.1	132.3	2.3	0.8	0.9	2.8	2.6
Gm3428	12.2	26.8	23.6	23.3	27.9	24.5	2.2	1.0	0.9	2.2	2.5

Supplementary Table 1: Affimetrix microarray data. The table shows genes that exhibit a > 2-fold change (numbers in red) in expression by dendritic cells from wild-type, Myd88^{-/-} and Card9^{-/-} mice that were stimulated with vaccine yeast vs. medium alone. The last two columns show ratio of fold change in gene expression by wild type vs. Myd88^{-/-} and wild type vs. Card9^{-/-} DC. Gene expression of SLAMF1 is highlighted in bold.

SNP tests of SLAMF1-/- mice

Chrom.	Location	Identity	Chrom.	Location (bp)	Identity	Chrom.	Location	Identity
2	11043342	B6	7	4845207	B6	12	75996767	B6
2	37657113	B6	7	30723088	B6	12	99200894	B6
2	55388593	B6	7	44496336	B6	12	116179294	B6
2	77190188	B6	7	75705579	mix	13	16184499	B6
2	103247353	B6	7	103468334	B6	13	38430801	B6
2	132155411	B6	7	139788374	mix	13	67840277	B6
2	159982657	B6	7	144579810	B6	13	87674302	B6
3	11297853	B6	8	15191287	B6J	13	115447807	B6
3	26332688	B6	8	36069255	B6	13	119331726	B6
3	51676615	B6	8	51011320	B6	14	9760330	B6
3	87370527	B6	8	68083563	B6	14	25343320	B6
3	109769327	B6	8	85260543	B6	14	55021861	B6
3	130729788	B6	8	98278863	B6	14	78038402	B6
3	153670143	B6	8	122947693	B6	14	120944588	B6
4	6893505	B6	9	17784920	B6	14	123146197	B6
4	26630293	B6	9	33798345	B6	15	10101304	B6
4	47147482	B6	9	47788124	B6	15	31916279	B6
4	70913565	B6	9	65238490	B6	15	42825752	B6
4	111294244	B6	9	81859840	B6	15	57160486	B6J
4	135371936	B6	9	123642539	B6	15	97711920	mix
4	155717880	B6	10	6490661	B6	15	100409513	B6
5	10671078	B6	10	19373181	B6	16	5596392	B6
5	25416413	B6	10	53743149	B6	16	19883079	B6
5	45053753	B6	10	82992866	B6	16	45037051	B6
5	66662082	B6	10	103008495	B6	16	63792473	129
5	92291809	B6	10	128453132	B6	16	95108047	B6
5	137471207	B6	11	4508730	B6J	17	7104652	129
5	149795466	B6	11	14367378	B6	17	23780062	B6
6	3466870	B6	11	24486229	B6	17	40843403	B6
6	17723652	B6	11	58970014	B6	17	58195862	B6
6	54549374	B6	11	82863758	B6	17	86809846	B6
6	75395550	B6	11	116315626	B6	18	5207640	B6
6	94352524	B6	12	9543137	B6	18	21940443	B6
6	128010127	B6	12	32208374	B6	18	54561772	B6
6	147673082	B6	12	63972884	B6	18	77734915	B6
						18	89459800	B6
						19	18594885	mix
						19	29265226	mix
						19	38442814	mix
						19	48137866	mix
						19	60766482	B6

Supplementary Table 2: Results of SNP tests in SLAMF1-/- mice. Mice were homozygous at all tested loci. SLAMF1-/- mice had 93.2% percent C57/BL6 background associated SNPs. 8 out of 120 tested SNPs were associated with a 129 background: 6 on chromosome 1, 1 on chromosome 16, and 1 on chromosome 17 (not within MHC genes).

Testing completed by Transnetyx® Genetic