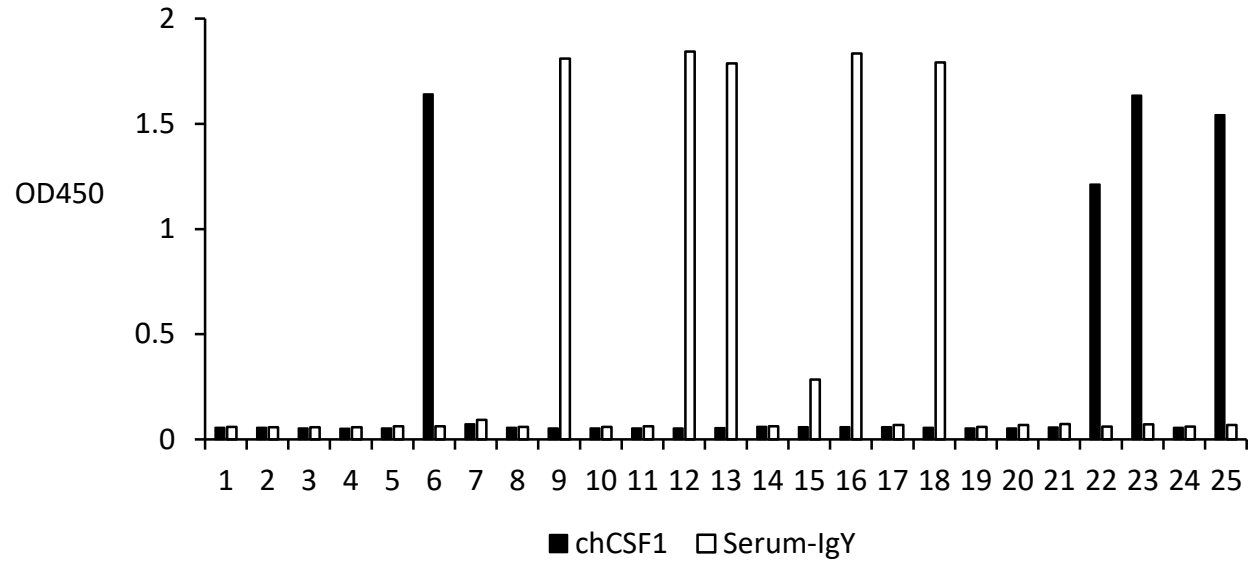
Figure 1

A


OD450
2
1.5
1
0.5
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
chCSF1
Serum-IgY

B

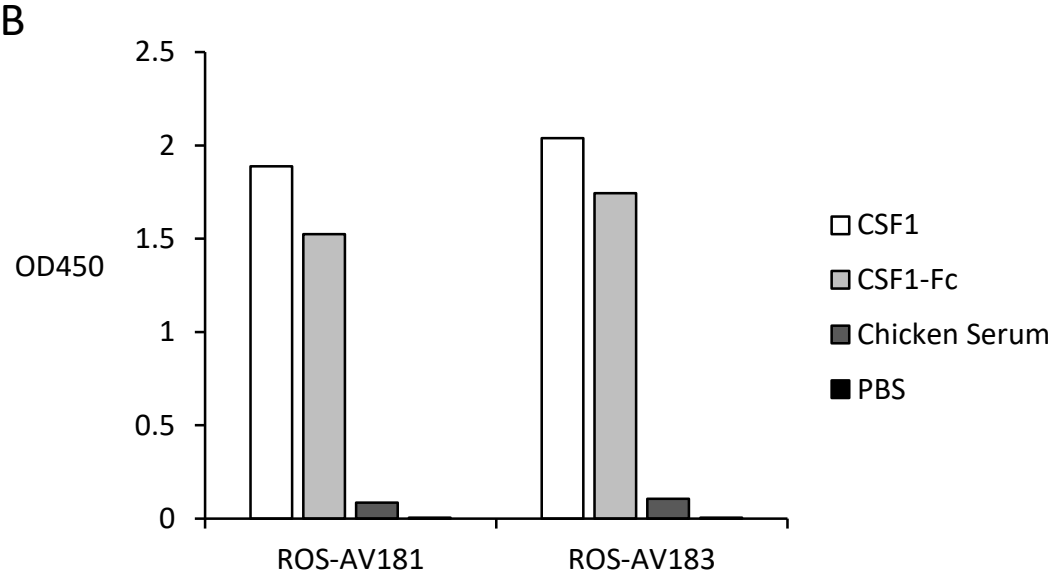
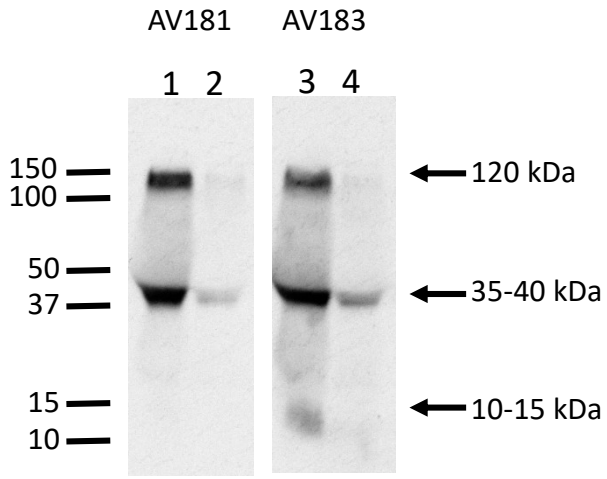

OD450
2.5
2
1.5
1
0.5
0
ROS-AV181
ROS-AV183
CSF1
CSF1-Fc
Chicken Serum
PBS

Figure 2

A



Lane 1 and 3: 18 µl of serum
Lane 2 and 4: 9 µl of serum

B

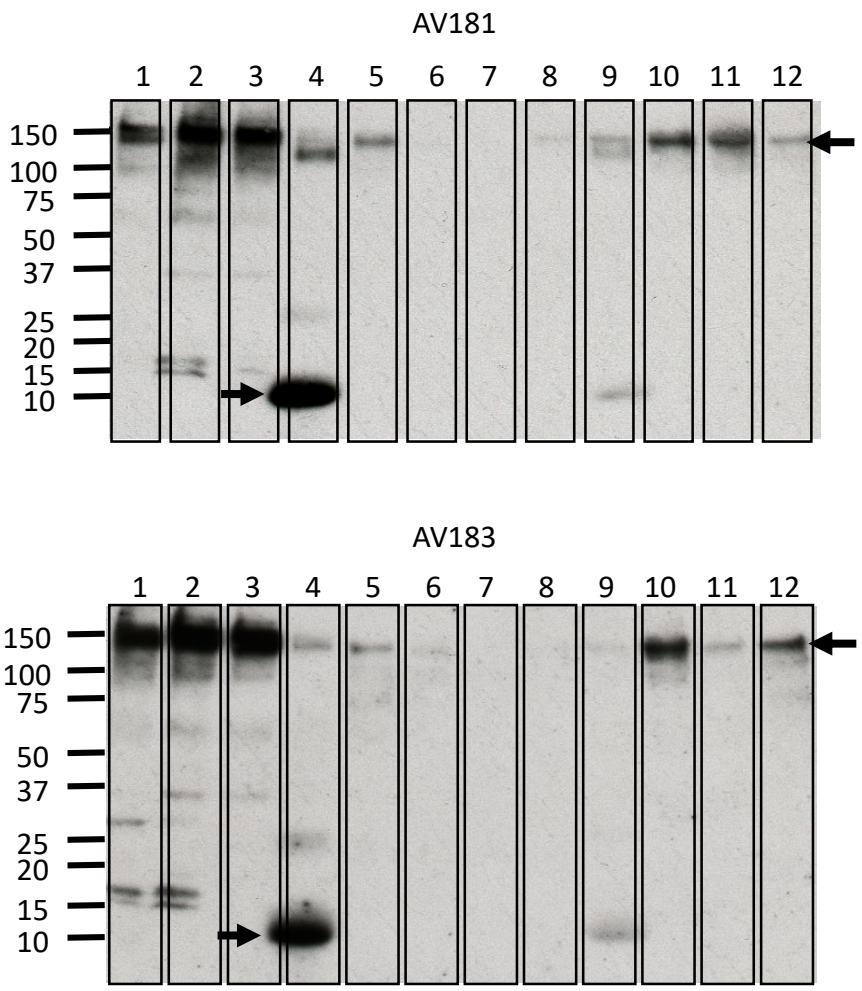
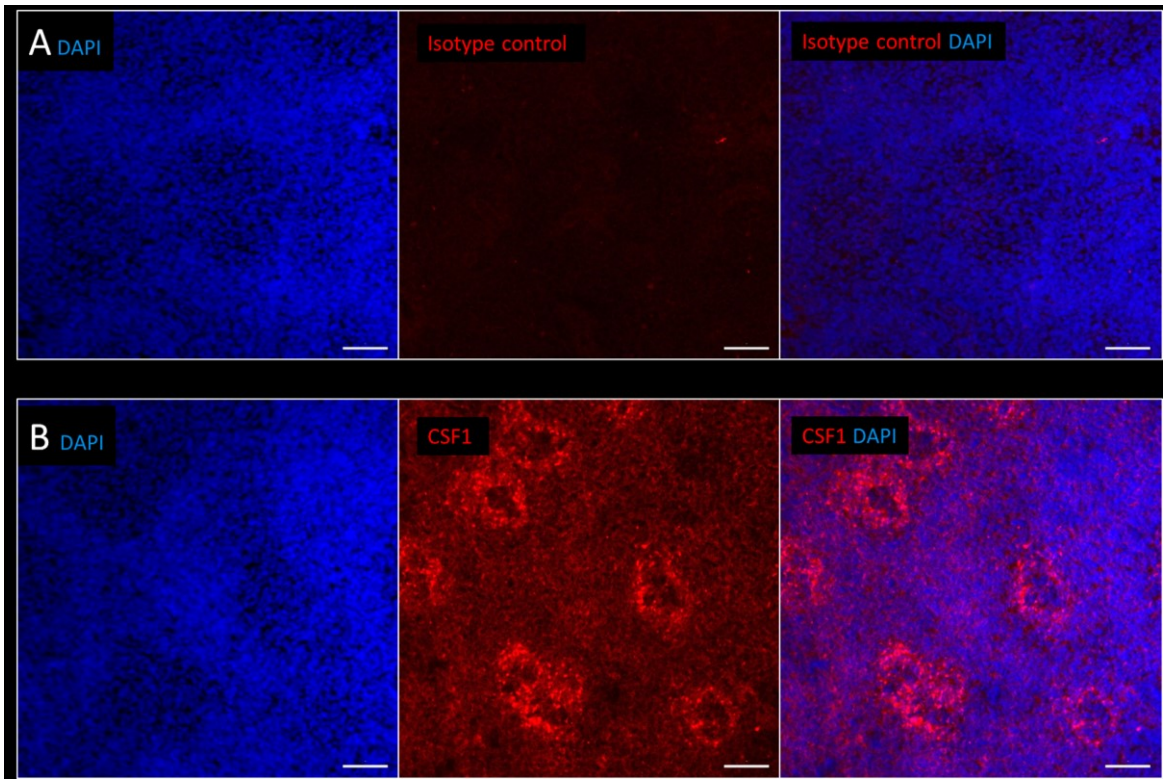


Figure 3

Spleen



Bursa

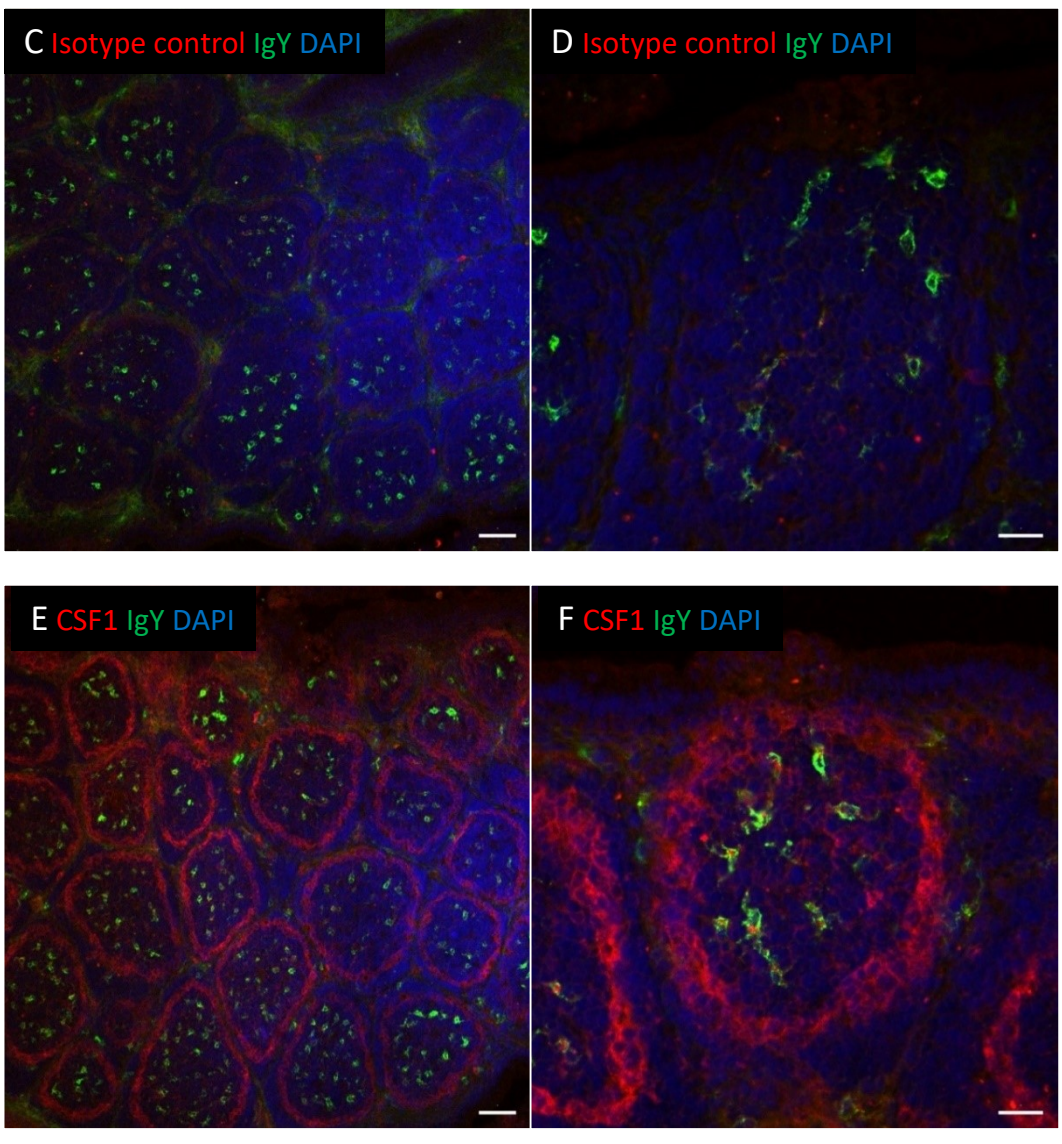


Figure 4

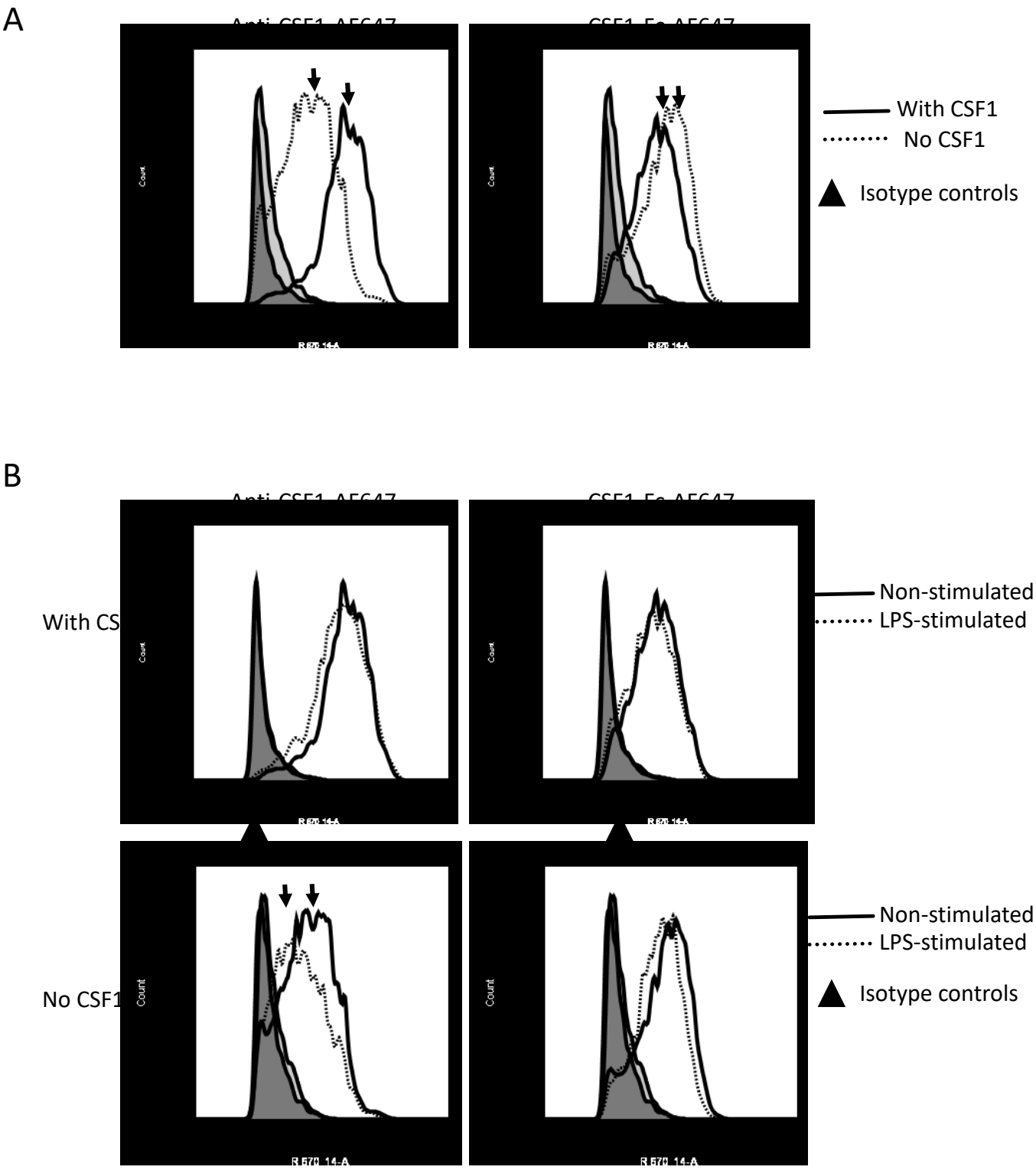

A
With CSF1
No CSF1
Isotype controls
B
With CS
No CSF1
Non-stimulated
LPS-stimulated
Non-stimulated
LPS-stimulated
Isotype controls

Figure 5

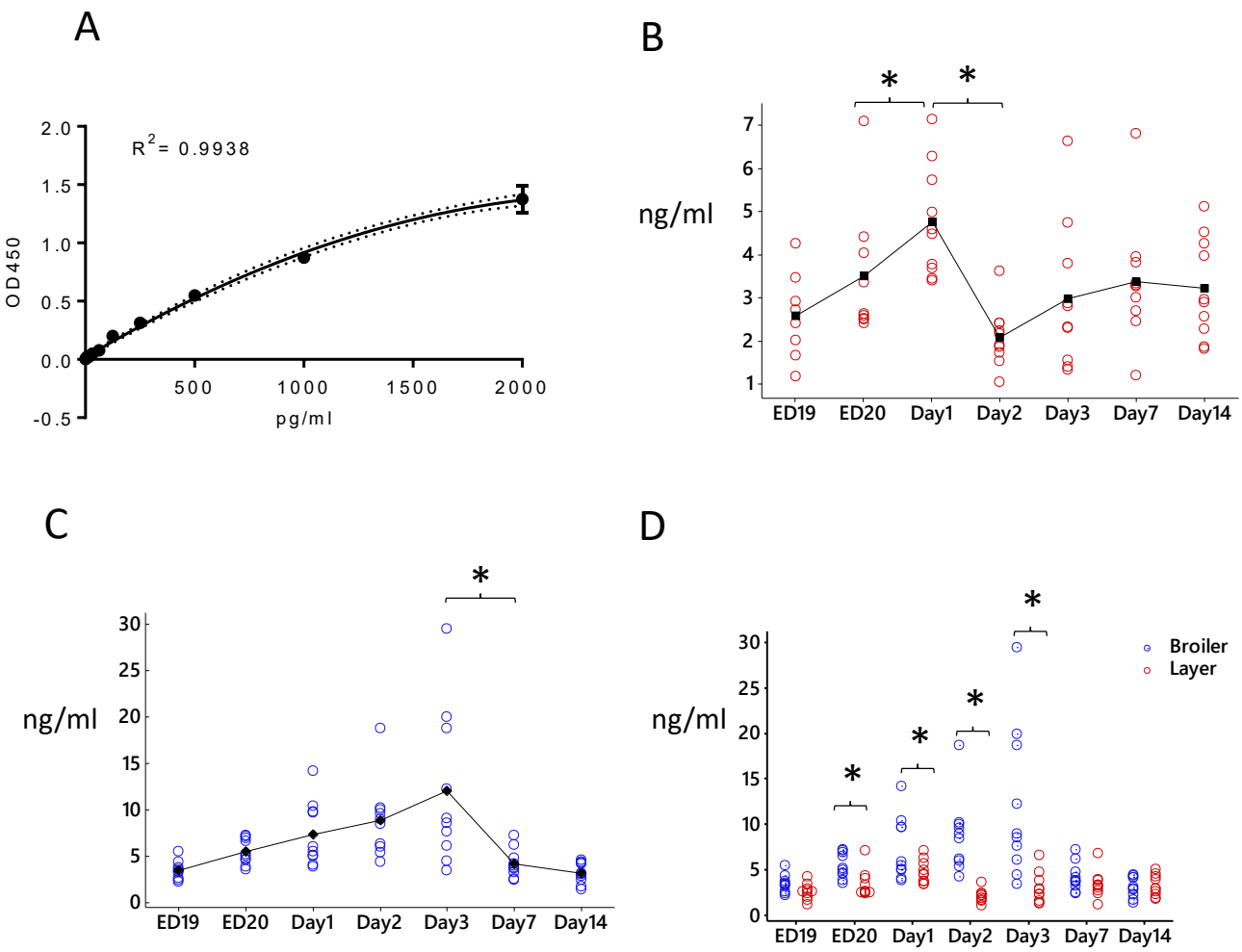
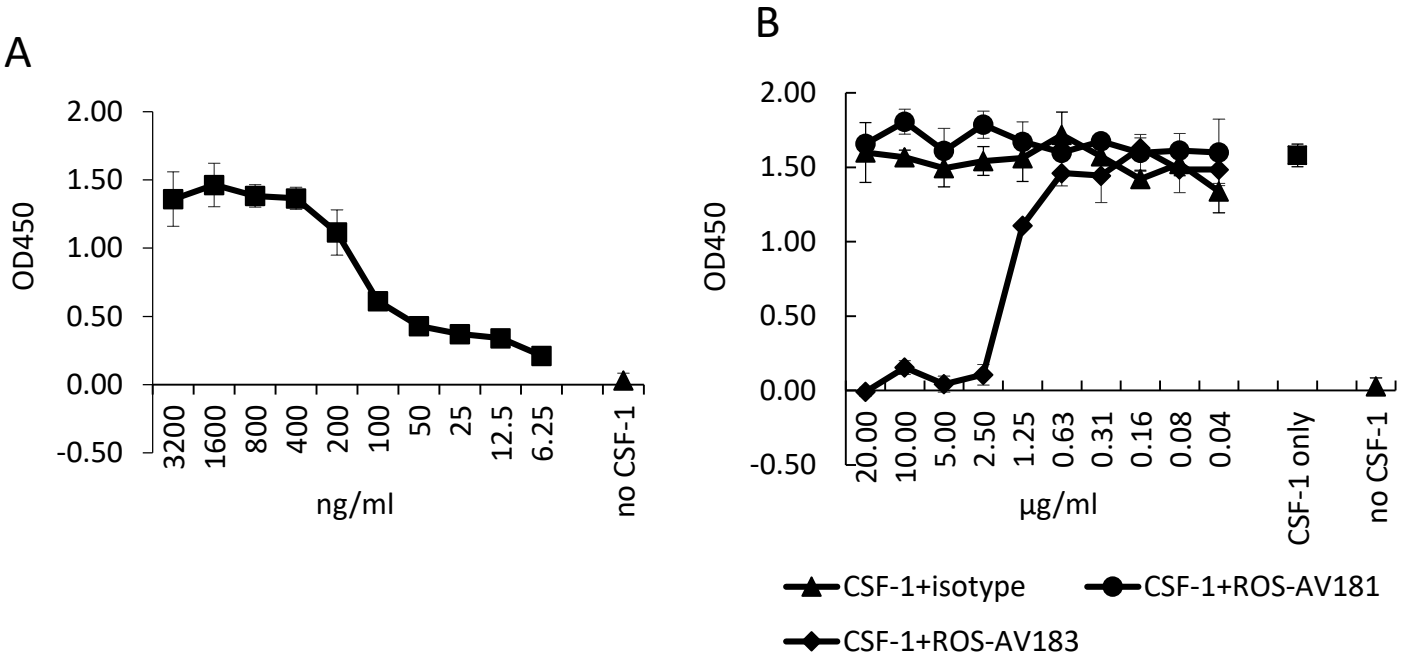

A
R^2= 0.9938
OD450
pg/ml
B
ng/ml
ED19
ED20
Day1
Day2
Day3
Day7
Day14
C
ng/ml
D
ng/ml
Broiler
Layer

Figure 6


A
2.00
1.50
1.00
0.50
0.00
-0.50
OD450
3200
1600
800
400
200
100
50
25
12.5
6.25
no CSF-1
ng/ml
B
2.00
1.50
1.00
0.50
0.00
-0.50
OD450
20.00
10.00
5.00
2.50
1.25
0.63
0.31
0.16
0.08
0.04
CSF-1 only
no CSF-1
µg/ml
CSF-1+isotype
CSF-1+ROS-AV181
CSF-1+ROS-AV183

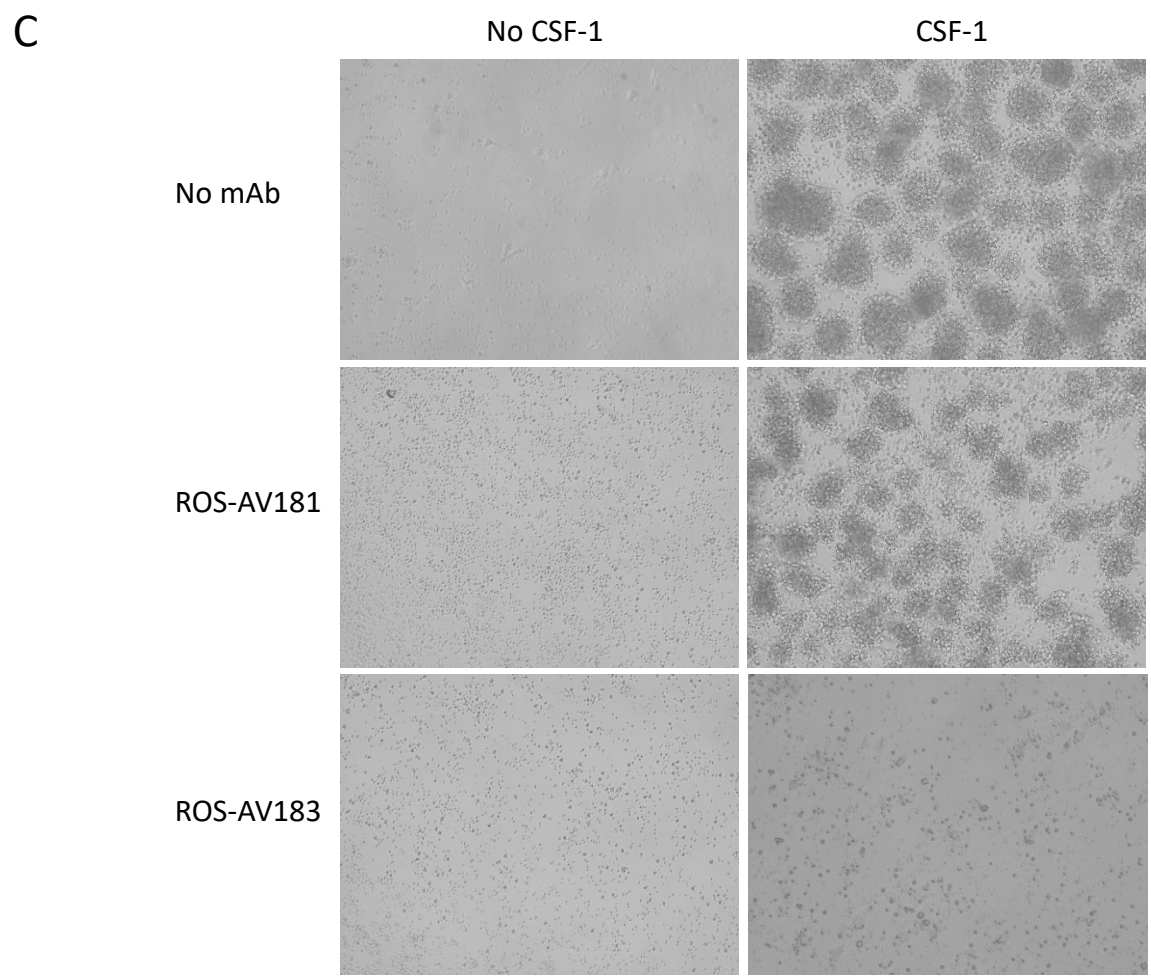
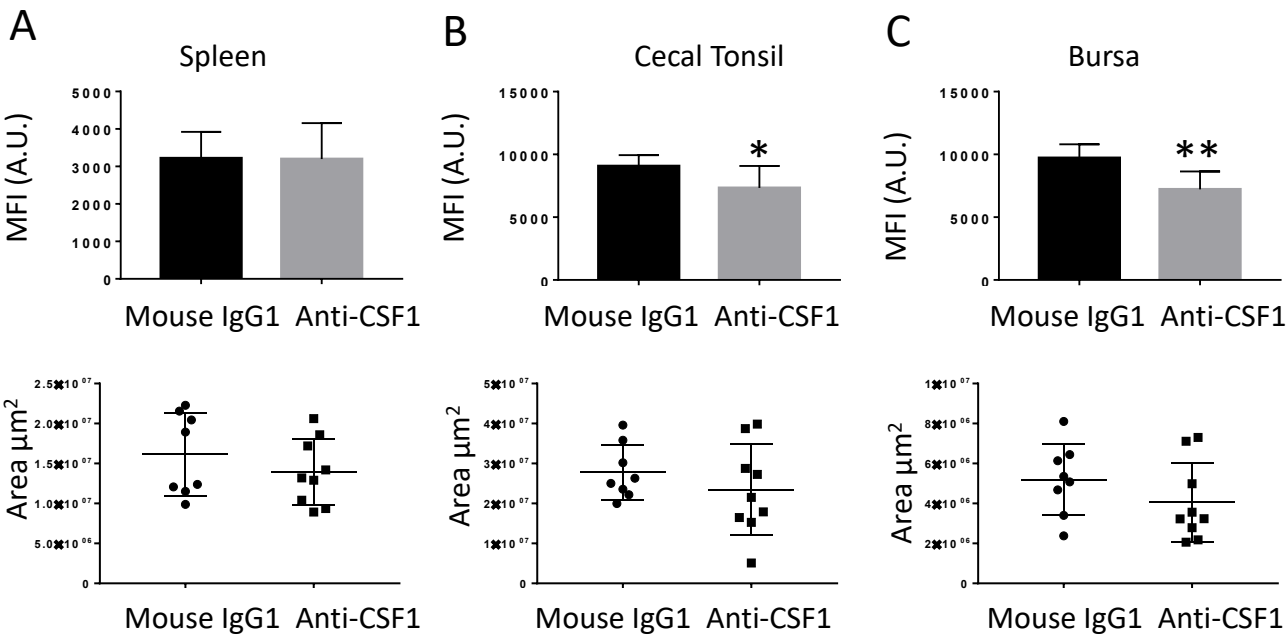

C
No CSF-1
CSF-1
No mAb
ROS-AV181
ROS-AV183

Figure 7


A
Spleen
MFI (A.U.)
5000
4000
3000
2000
1000
0
Mouse IgG1
Anti-CSF1
B
Cecal Tonsil
MFI (A.U.)
15000
10000
5000
0
*
Mouse IgG1
Anti-CSF1
C
Bursa
MFI (A.U.)
15000
10000
5000
0
**
Mouse IgG1
Anti-CSF1
Area µm2
Mouse IgG1
Anti-CSF1
Area µm2
Mouse IgG1
Anti-CSF1
Area µm2
Mouse IgG1
Anti-CSF1

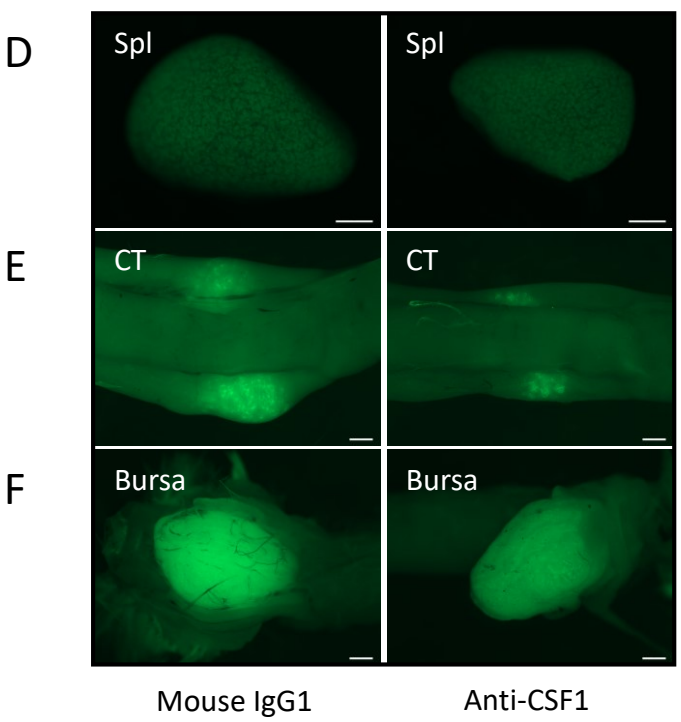

D
Spl
Spl
E
CT
CT
F
Bursa
Bursa
Mouse IgG1
Anti-CSF1

Figure 8

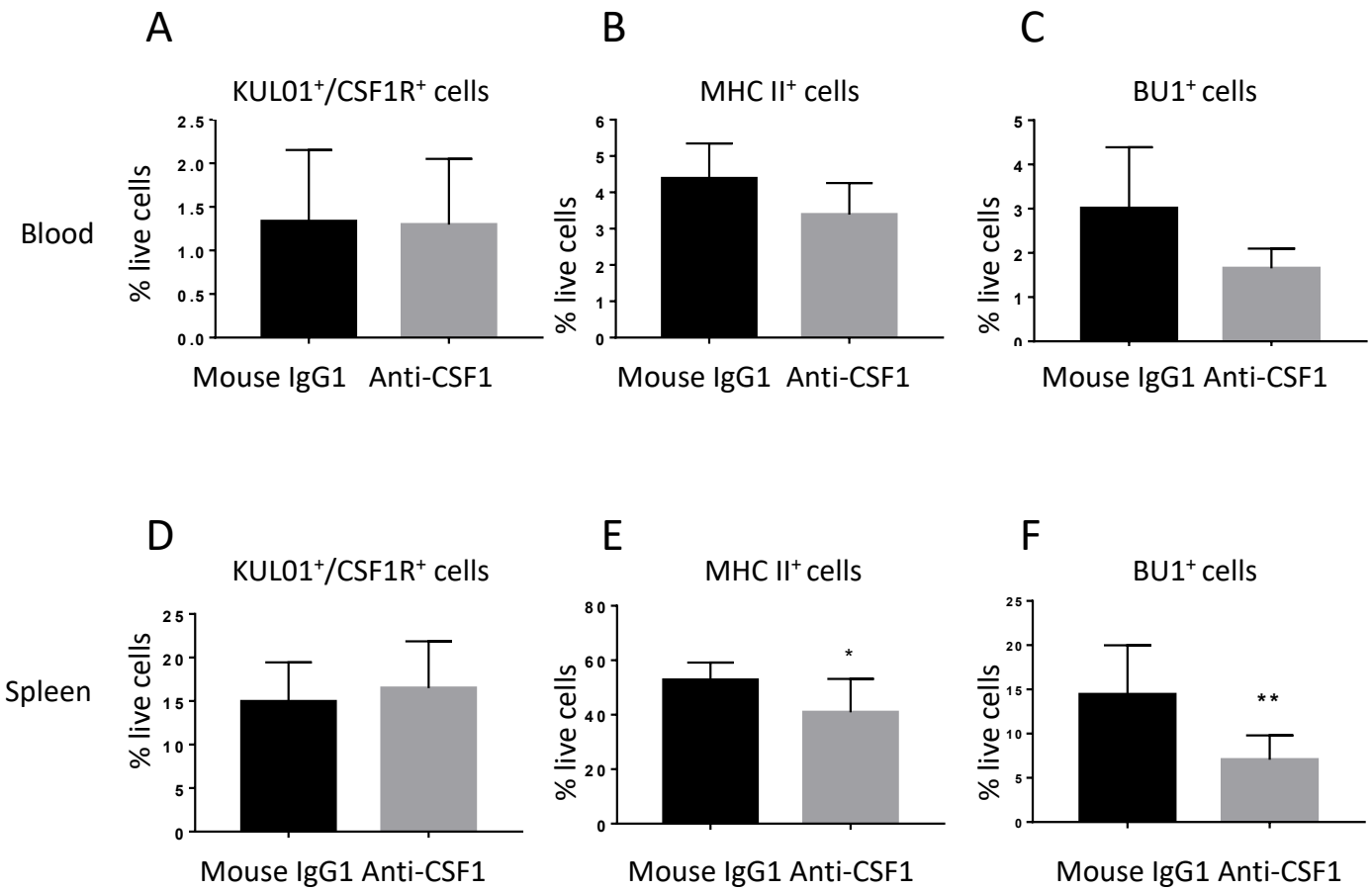
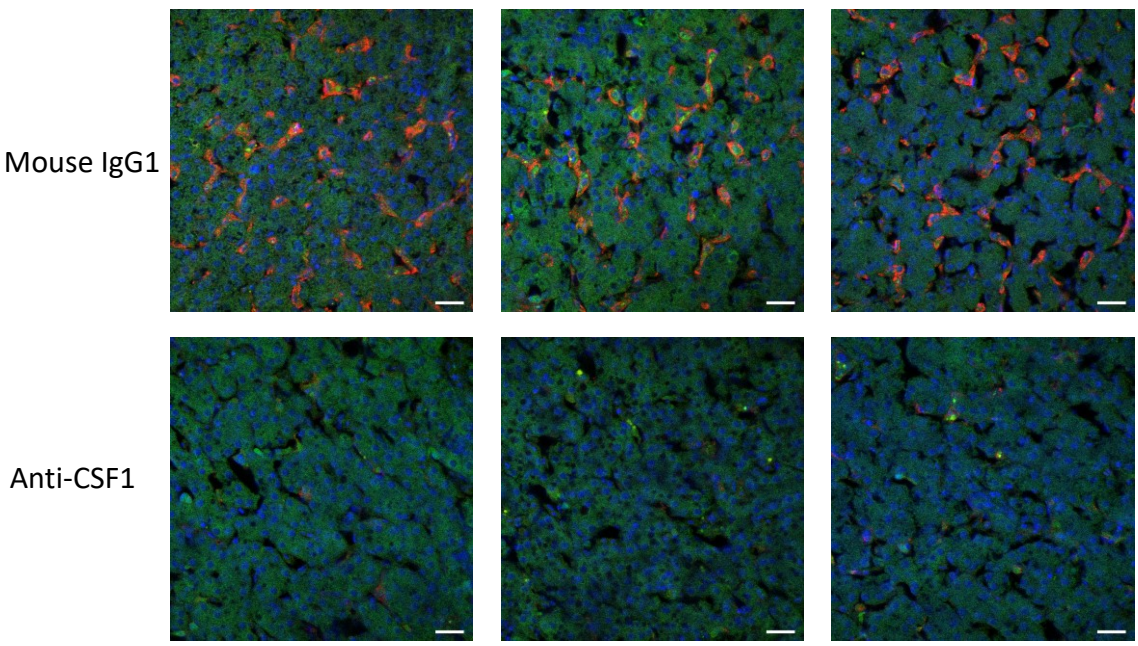

A
KUL01+/CSF1R+ cells
% live cells
2.5
2.0
1.5
1.0
0.5
0.0
Mouse IgG1
Anti-CSF1
B
MHC II+ cells
% live cells
6
5
4
3
2
1
0
Mouse IgG1
Anti-CSF1
C
BU1+ cells
% live cells
5
4
3
2
1
0
Mouse IgG1
Anti-CSF1
Blood
D
KUL01+/CSF1R+ cells
% live cells
25
20
15
10
5
0
Mouse IgG1
Anti-CSF1
E
MHC II+ cells
% live cells
80
60
40
20
0
*
Mouse IgG1
Anti-CSF1
F
BU1+ cells
% live cells
25
20
15
10
5
0
**
Mouse IgG1
Anti-CSF1
Spleen

Figure 9

A



DAPI CSF1R-eGFP TIM4 cells Scale bar=20 µm

B

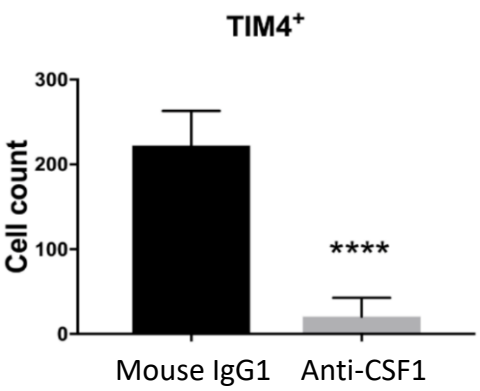
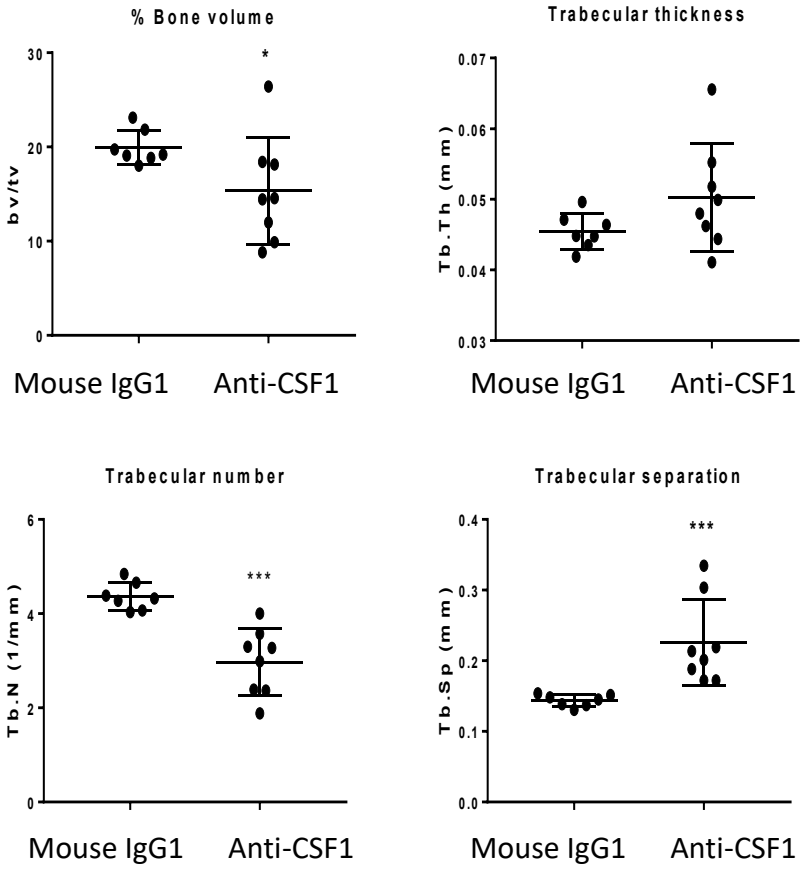
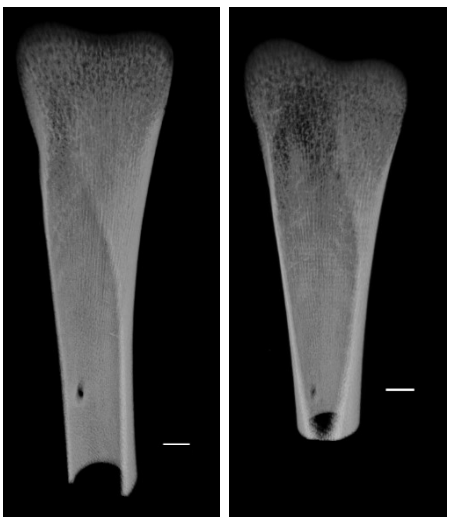


Figure 10

A



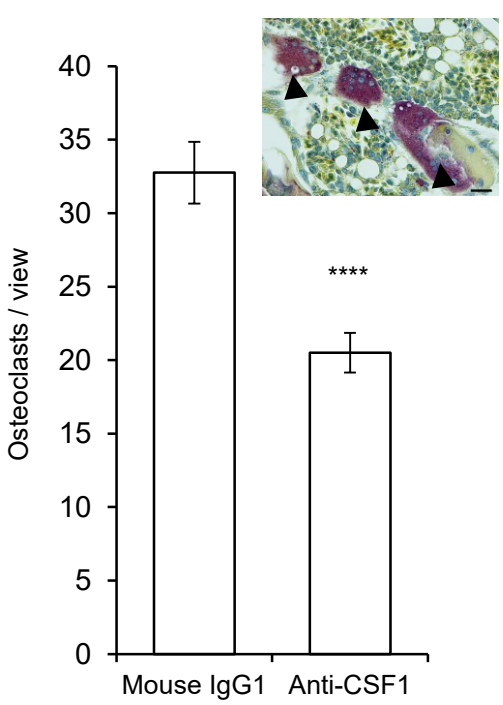
B



Mouse IgG1 anti-CSF1

3D image

C



D

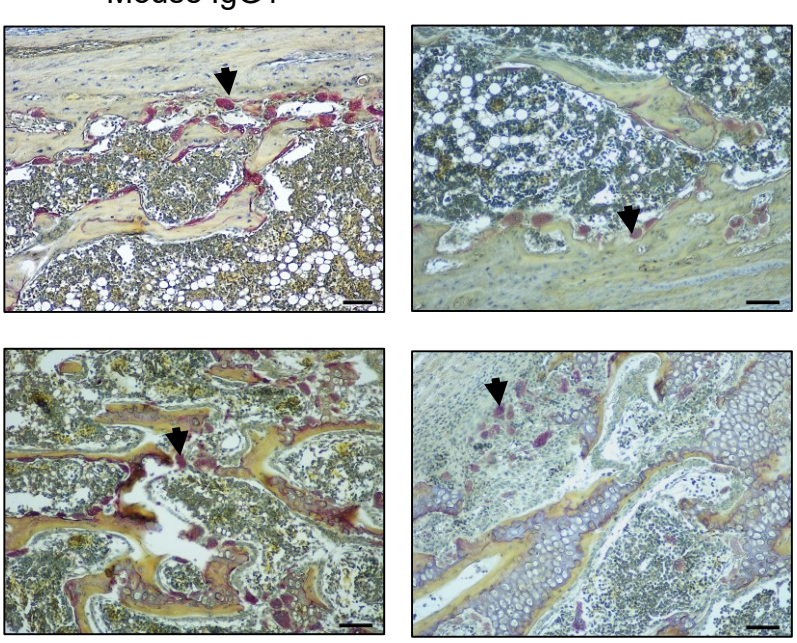


Figure S1

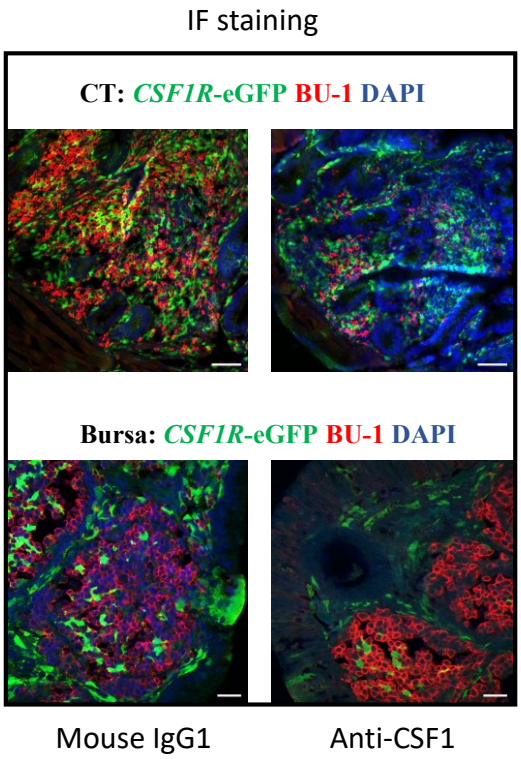


Figure S1:
The effect of anti-CSF1 treatment on CSF1R-eGFP^{+} cells in the cecal tonsil and the bursa of Fabricius. Cecal tonsil and bursa samples from *CSF1R*-eGFP transgenic reporter birds after subcutaneous injections (as described in MM) were collected in ice cold PBS and fixed in 4% paraformaldehyde (PFA) overnight, followed by washing in PBS and storage in 30% sucrose until the tissues sank. Tissues were then cryo-embedded in OCT and sectioned for staining with Rabbit anti-GFP Alexa Fluor 488 (Invitrogen) to detect CSF1R-eGFP and Mouse anti-chicken Bu-1-RPE (AV20) to detect B cells overnight at 4°C. Slides were then washed, mounted and visualised as described above. Representative confocal images using LSM 710 inverted microscope from one bird from each treatment. Green indicates CSF1R transgene expression, red indicates Bu-1^{+} cells and blue denotes nuclei. Scale bar = 20 µm.