Supplementary Figure Legend

Fig.S1 IgM antibodies to oxidation-specific antigens are present in TcR $\alpha^{-/-}$ mice. Dilution binding curves of plasma IgM from TcR $\alpha^{-/-}$ mice (n=4) and aged-matched wt C57BL/6 mice (n=4) to indicated antigens. Plasma samples were from 6 weeks-old female mice. Values are means and SEM.

Fig.S2 Fold increase of natural IgM Ab titers to oxidation-specific antigens after *in vitro* stimulation of B-1 cells. Results are from the same *in vitro* stimulation experiment shown in **Fig.2A**. Data are plotted as fold increase compared to unstimulated condition. The production of IgMs to MDA-LDL and to CuOxLDL were significantly increased compared to unstimulated for all stimuli, ($p < 0.001$-$p < 0.05$). The increase in IgM to α1,3-dextran was only significant for IL-5 stimulation. The increase of IgMs to MDA-LDL and CuOx-LDL were significantly greater than the increase to α1,3-Dextran when stimulated with KDO_2-lipidA and TLR2 agonists. ** $p < 0.01$ compared to α1,3-Dextran under the same condition (Repeated measures ANOVA with Tukey-Kramer Multiple Comparison test).

Fig.S3 IgM titers to oxidation-specific epitopes in B-1 reconstituted *Rag1*$^{-/-}$ mice with minor T cell contamination. Pooled plasma collected from *Rag1*$^{-/-}$ recipients 4 and 10 weeks after transfer of either B-1 cells (*Rag1*$^{-/-}$ + B-1, n=5) or PBS (*Rag1*$^{-/-}$ + PBS, n=6) were tested for specific IgM binding by ELISA. Plasma from age-matched C57BL/6 mice (n=3) were also included. Plasma IgM Abs specific for MDA-LDL and CuOx-LDL could be detected after 4 weeks of transfer and increased with time. In this experiment a minor contamination of T cells (< 3% of total cells) was present in B-1 cells transferred. Each value is the mean of triplicate determinations.

Fig.S4 Complete Sequence of Clone NA-17. Genetic sequence and translation of the variable region of the heavy and light chain of monoclonal Ab NA-17. Red Letters indicate amino acids of the germ-line, which differ from the amino acid sequence of NA-17.

Figure S1

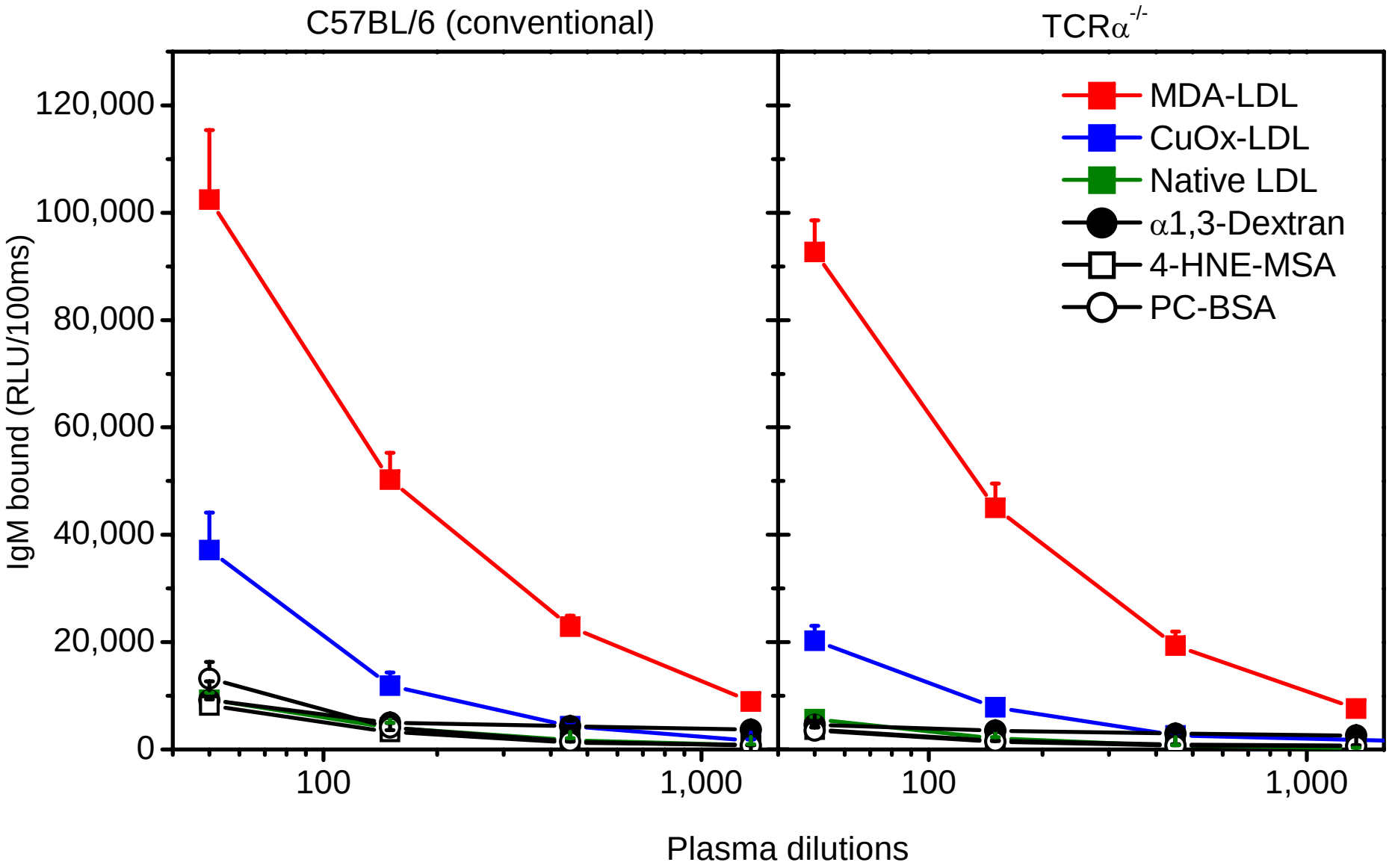

C57BL/6 (conventional)
TCRα-/-
MDA-LDL
CuOx-LDL
Native LDL
α1,3-Dextran
4-HNE-MSA
PC-BSA
IgM bound (RLU/100ms)
120,000
100,000
80,000
60,000
40,000
20,000
0
100
1,000
100
1,000
Plasma dilutions

Figure S2

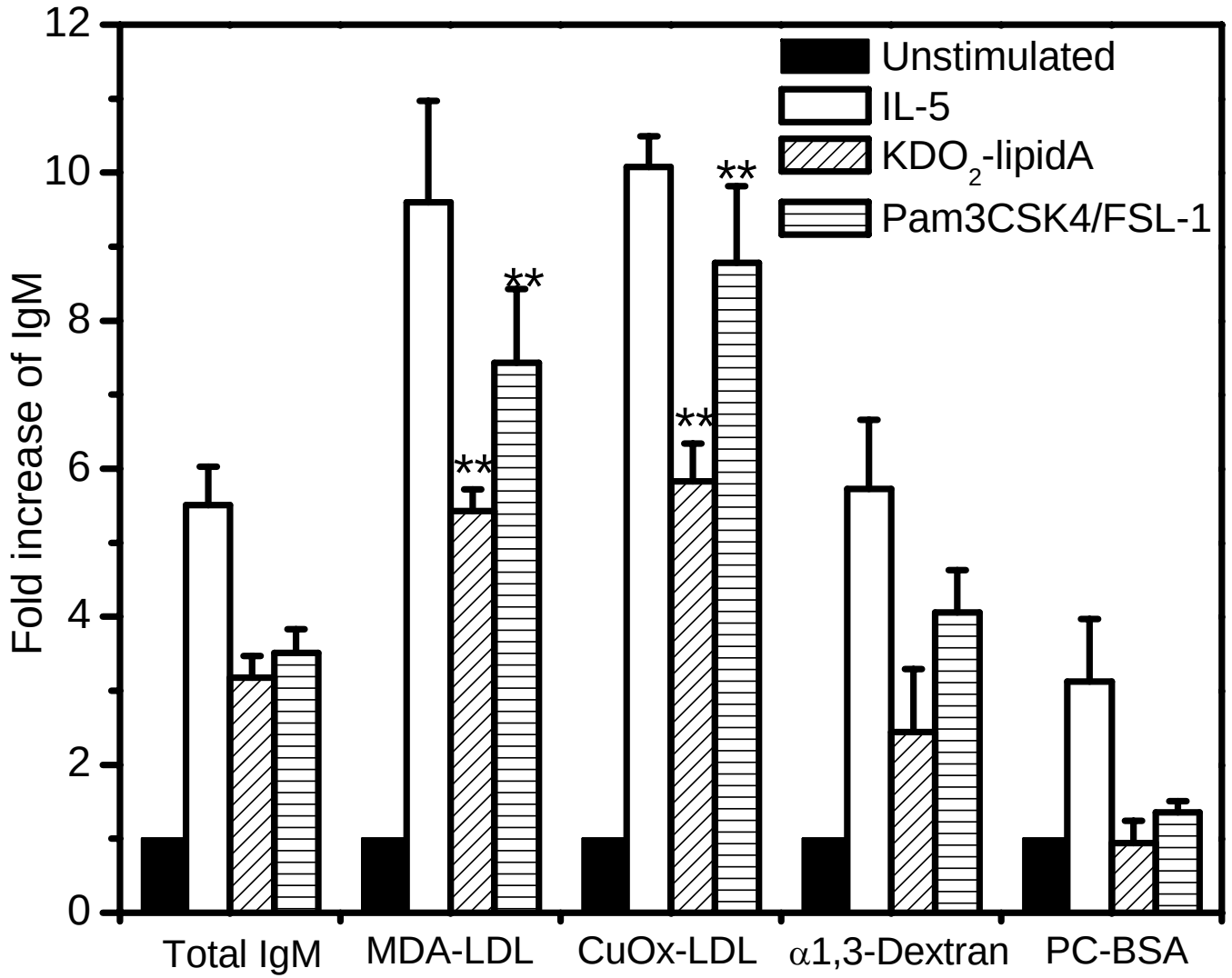

Fold increase of IgM
12
10
8
6
4
2
0
Unstimulated
IL-5
KDO2-lipidA
Pam3CSK4/FSL-1
**
**
**
Total IgM
MDA-LDL
CuOx-LDL
α1,3-Dextran
PC-BSA

Figure S3

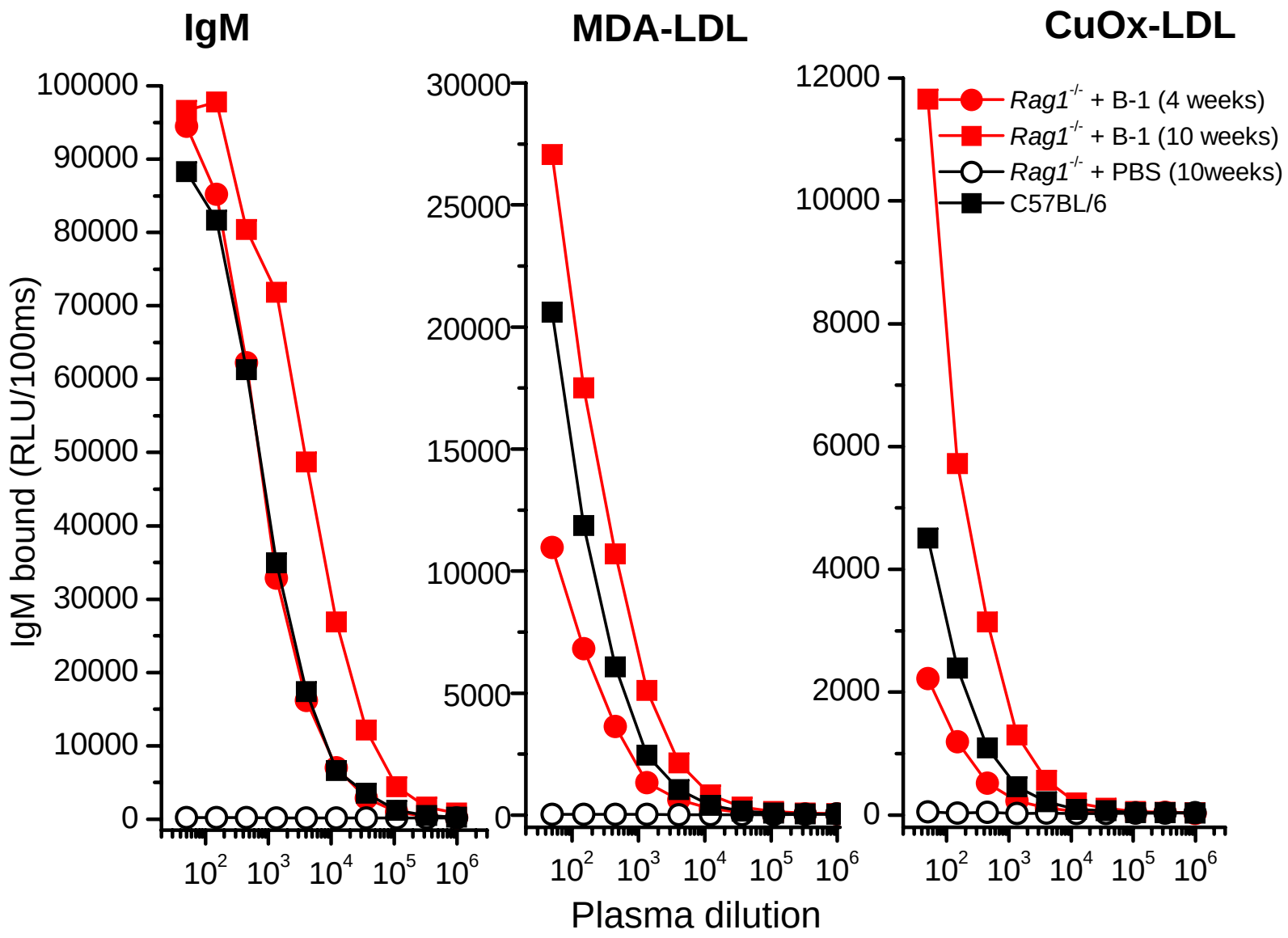
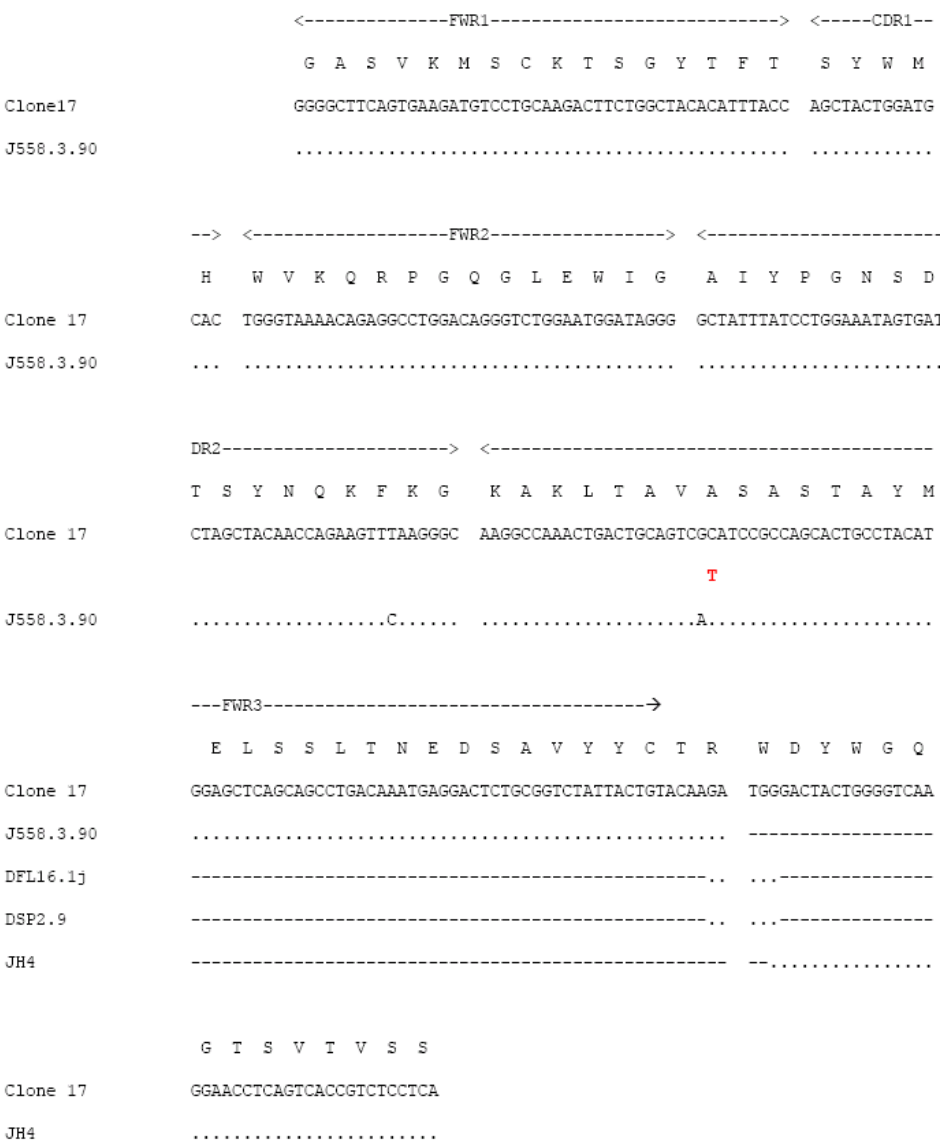

IgM
MDA-LDL
CuOx-LDL
IgM bound (RLU/100ms)
Plasma dilution
Rag1-/- + B-1 (4 weeks)
Rag1-/- + B-1 (10 weeks)
Rag1-/- + PBS (10weeks)
C57BL/6

Figure S4

Complete Sequence of NA-17 hybridoma

Heavy chain



Light chain