

## Supplementary Figure Legend

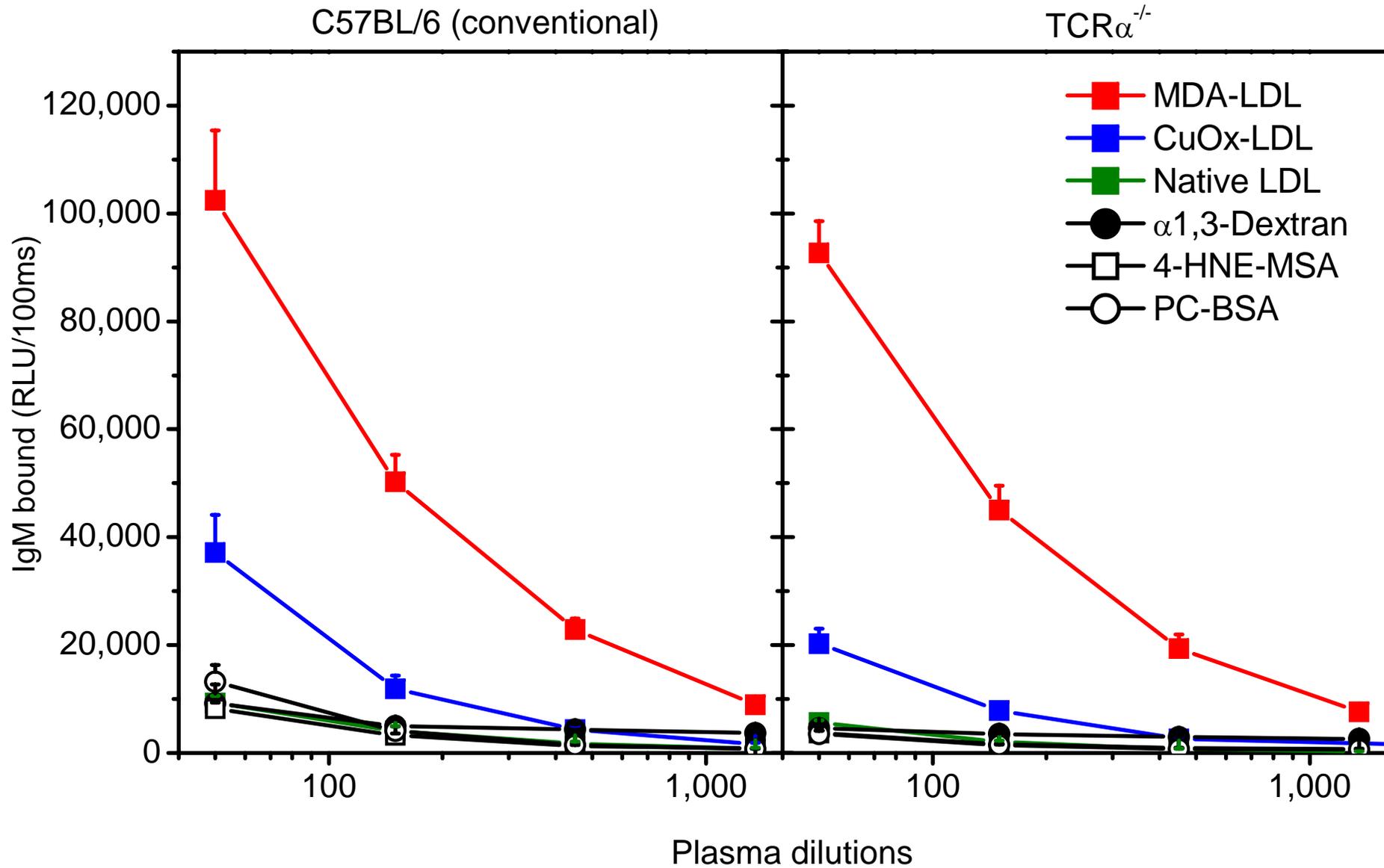
**Fig.S1 IgM antibodies to oxidation-specific antigens are present in TcR  $\alpha^{-/-}$  mice.** Dilution binding curves of plasma IgM from TcR  $\alpha^{-/-}$  mice (n=4) and aged-matched wt C57BL/6 mice (n=4) to indicated antigens. Plasma samples were from 6 weeks-old female mice. Values are means 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  $\alpha$ 1,3-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  $\alpha$ 1,3-Dextran when stimulated with KDO<sub>2</sub>-lipidA and TLR2 agonists. \*\* p<0.01 compared to  $\alpha$ 1,3-Dextran under the same condition (Repeated measures ANOVA with Tukey-Kramer Multiple Comparison test).

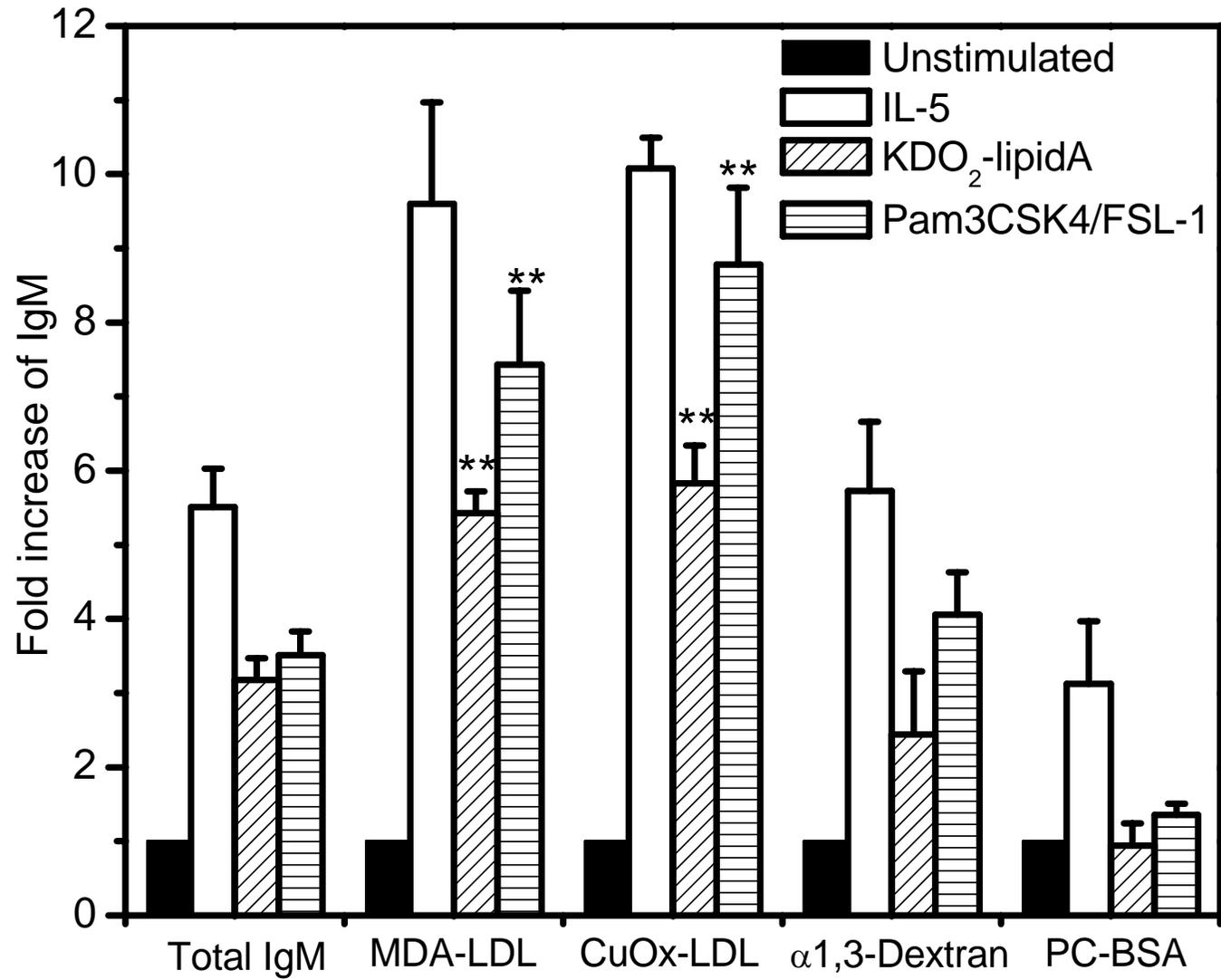
**Fig.S3 IgM titers to oxidation-specific epitopes in B-1 reconstituted *RagI*<sup>-/-</sup> mice with minor T cell contamination.** Pooled plasma collected from *RagI*<sup>-/-</sup> recipients 4 and 10 weeks after transfer of either B-1 cells (*RagI*<sup>-/-</sup> + B-1, n=5) or PBS (*RagI*<sup>-/-</sup> + 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.

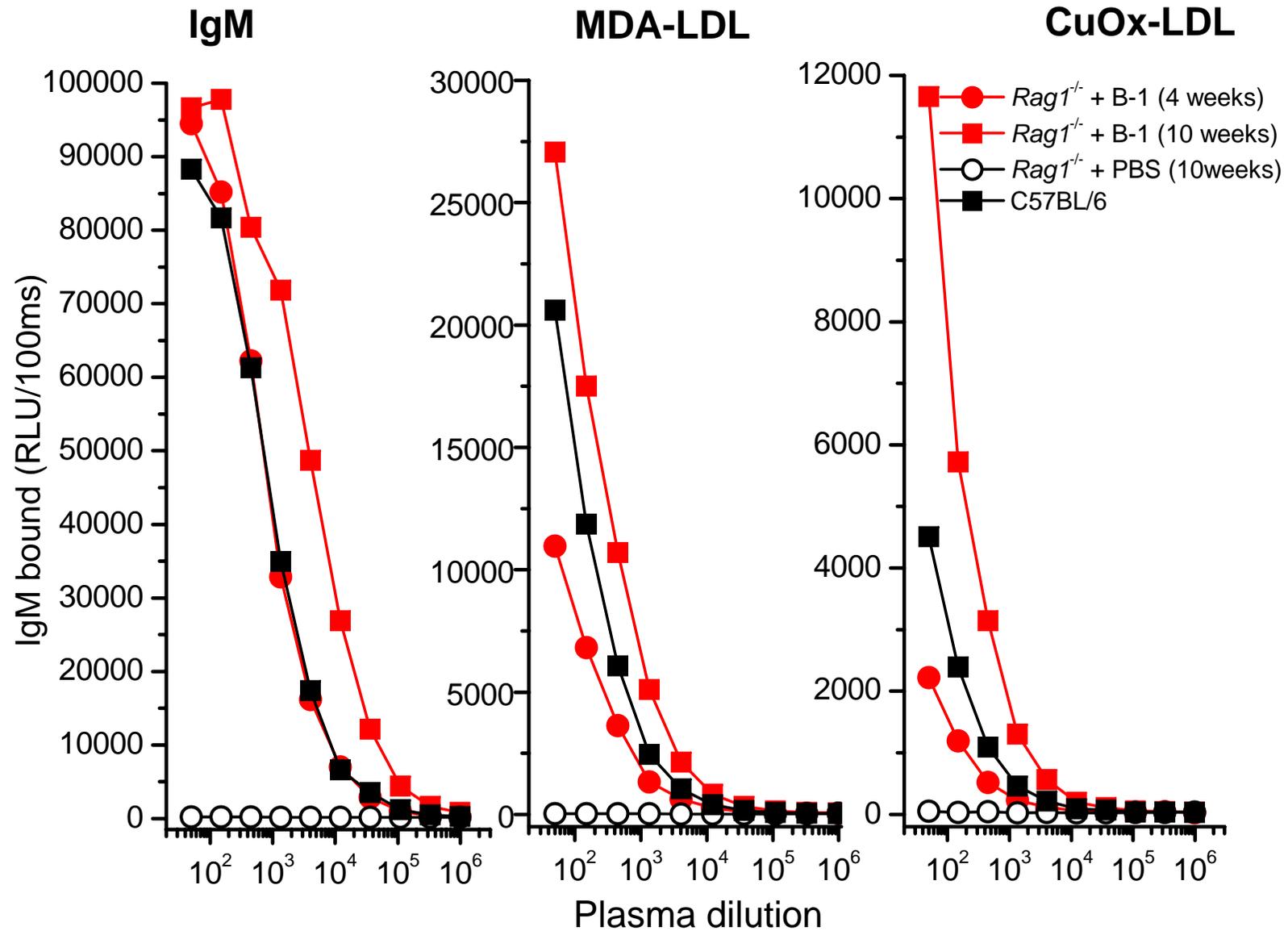
# Figure S1



# Figure S2



# Figure S3



# Figure S4 Complete Sequence of NA-17 hybridoma

## Heavy chain

## Light chain

	<-----FWR1----->	<-----CDR1-->		<-----FWR1----->	<
	G A S V K M S C K T S G Y T F T S Y W M			Q S P A L M A A S P G E K V T I T C	
Clone17	GGGGCTTCAGTGAAGATGTCTGCAAGACTTCTGGCTACACATTACC	AGCTACTGGATG	Clone17	CAGTCTCCAGCACTCATGGCTGCATCTCCAGGGGAGAAGGTCACCATCACCTGC	A
J558.3.90	.....	.....	kh4	.....	.
	--> <-----FWR2----->	<----->		-----CDR1----->	<-----FWR2----->
	H W V K Q R P G Q G L E W I G A I Y P G N S D			S V S S S I S S N N L H W Y Q Q K S E T S P K P	
Clone 17	CAC TGGGTAAAACAGAGGCCTGGACAGGGTCTGGAATGGATAGGG	GCTATTTATCCTGGAAATAGTGA	Clone17	GTGTCAGCTCAAGTATAAGTTCCAACTTGAC	TGGTACCAGCAGAAGTCAGAAACCTCCCCAAACC
J558.3.90	... ..	.....	kh4	.....G.....	.....
	DR2----->	<----->		----->	<-----CDR2----->
	T S Y N Q K F K G K A K L T A V A S A S T A Y M			W F Y G T S D L A S G V P V R F S G S G S G T	
Clone 17	CTAGCTACAACCAGAAGTTTAAGGGC	AAGGCCAACTGACTGCAGTCGCATCCGCCAGCAGCTGCCTACAT	Clone17	CTGGTTTTAT	GGCACATCCGACCTGGCTTCT GGAGTCCTGTTCGCTTCAGTGGCAGTGGATCTGGGACC
J558.3.90	.....C.....	.....A.....	kh4	I N	...A.... ...A.....
	---FWR3----->			-----FWR3----->	
	E L S S L T N E D S A V Y Y C T R W D Y W G Q			S Y S L T I S S M E A E D A A T Y Y C Q Q W N	
Clone 17	GGAGCTCAGCAGCCTGACAAATGAGGACTCTGGGCTCTATTACTGTACAAGA	TGGGACTACTGGGGTCAA	Clone17	TCITATTCTCTCACAATCAGCAGCATGGAGGCTGAGATGCTGCCACTTATTACTGT	CAACAGTGGGAATA
J558.3.90	.....	-----		.....	S
DFL16.1j	-----	-----	kh4	.....	.....G..
DSP2.9	-----	-----			
JH4	-----	-----		S Y P P T F G A G T K L E L K G	
	G T S V T V S S		Clone17	GTTACCCACCCACGTTTCGGTCTGGGACCAAGCTGGAGCTGAAAGGT	
Clone 17	GGAAOCTCAGTCACCGTCTCTCTCA		kh4	-----	
JH4	.....		JK5	-----	.....C..