

## Deletion of RAGE fails to prevent hepatosteatosis in obese mice due to impairment of other AGEs receptors and detoxifying systems.

**Wouters et al.**

**Supplementary Table 1. Primers for RT-PCR**

PRIMER	FORWARD	REVERSE
RAGE	5'-GTCCGAGTCTACCAGATTCCT -3'	5'-GAAGTTTCCCATCTAAGTGCC-3'
AGER-1	5'-ACCTTCAAGACCGCAGATGA-3'	5'-CACGTTGATGTTGCCTCCAA-3'
Gal-3	5'-CCC GCATGCTGATCACAATC-3'	5'-GGGGTTAAAGTGGAAGGCAA-3'
Aldose reductase	5'-CGTGATACCTAGTGACACCGA-3'	5'-GCCAGGTTTGTCAAGATCCT-3'
Glo-1	5'-CCCTGCTATGAAGTTCTCGCTC-3'	5'-GAGCTCAAGGGTGGCTTTTCT-3'
Nrf2	5'-TTGGCAGAGACATCCCAT-3'	5'-GCTGCCACCGTCACTGGG-3'

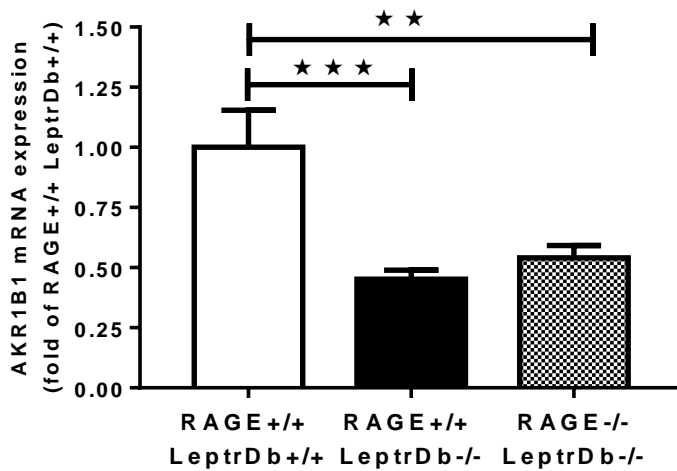
**Supplementary Table 2. Primary antibodies for western blotting analysis.**

ANTIBODIES	COMPANY	CAT. NO.
Mouse monoclonal anti-RAGE	Santa Cruz Biotechnology, Inc., Dallas, TX, USA	sc-365154
Rabbit Polyclonal anti-SREBP1c	Abcam	ab44153
Mouse Monoclonal anti- $\alpha$ -Tubulin	Abcam	ab7291
Mouse Monoclonal anti-Gal-3	Affinity BioReagents, Golden, CO, USA	MA1-940
Rabbit Polyclonal anti-ACC	Cell Signaling Technology, Danvers, MA, USA	3662
Rabbit Monoclonal anti-NLRP3	Epitomics, Burlingame, CA, USA	3560-1
Rabbit Polyclonal anti-Glo-1	Genetex, Irvine, CA, USA	GTX105792
Mouse Monoclonal anti- $\beta$ -Actin	Santa Cruz Biotechnology	sc-47778
Rabbit Polyclonal anti-Caspase 1 (p10)	Santa Cruz Biotechnology	sc-514
Mouse Monoclonal anti-FASN	Santa Cruz Biotechnology	sc-55580
Rabbit Polyclonal anti-Histone H3	Santa Cruz Biotechnology	sc-10809
Mouse Monoclonal anti-IL-1 $\beta$	Santa Cruz Biotechnology	sc-52012
Mouse Monoclonal anti-MyD88	Santa Cruz Biotechnology	sc-74532
Mouse Monoclonal anti-NFkB-p65	Santa Cruz Biotechnology.	sc-8008
Mouse Monoclonal anti-OST48 (AGER1)	Santa Cruz Biotechnology	sc-74408
Rabbit Polyclonal anti-Nrf2	Thermo Fisher Scientific, Waltham, MA, USA	PA5-27882

**Supplementary Table 3.** Body weight and cytokines plasma levels in control (RAGE+/+ LeptrDb+/+), obese (RAGE+/+ LeptrDb-/-), and RAGE KO obese (RAGE-/- LeptrDb-/-) mice. Data are means  $\pm$  SEM of 5-10 animals per group. Statistical significance: \*P<0,05 vs RAGE+/+ LeptrDb+/+; §P<0,05 vs RAGE+/+ LeptrDb-/-.

	RAGE+/+ LeptrDb+/+	RAGE+/+ LeptrDb-/-	RAGE-/- LeptrDb-/-
Body weight (g)	24.1 $\pm$ 0.6	35.0 $\pm$ 5.0	39.5 $\pm$ 5.0
IL-1 $\beta$ (pg/ml)	2.4 $\pm$ 0.9	8.0 $\pm$ 1.3*	2.4 $\pm$ 1.0 <sup>§</sup>
IFN- $\gamma$ (pg/ml)	0.9 $\pm$ 0.1	2.1 $\pm$ 0.3*	1.1 $\pm$ 0.2 <sup>§</sup>
TNF- $\alpha$ (pg/ml)	1.0 $\pm$ 0.4	2.3 $\pm$ 0.6*	0.6 $\pm$ 0.7 <sup>§</sup>

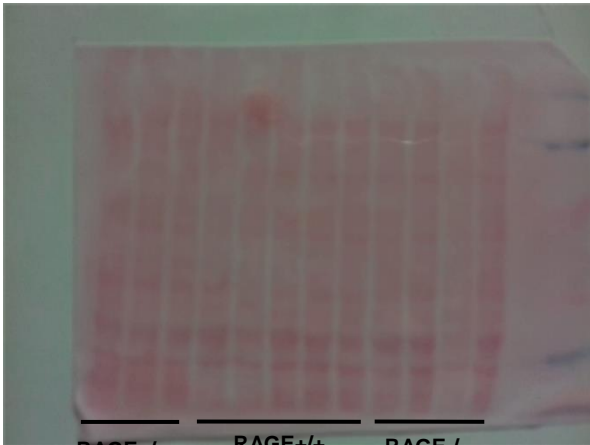
**Supplementary Figure 1.** PCR analysis for gene expression of the AGEs detoxifying enzyme aldose reductase in liver mRNA extracts. Data are means  $\pm$  s.e.m. of 4-6 animals per group. Statistical significance: \*\*P<0,01; \*\*\*P<0,001.



## Supporting information

Ponceau S staining

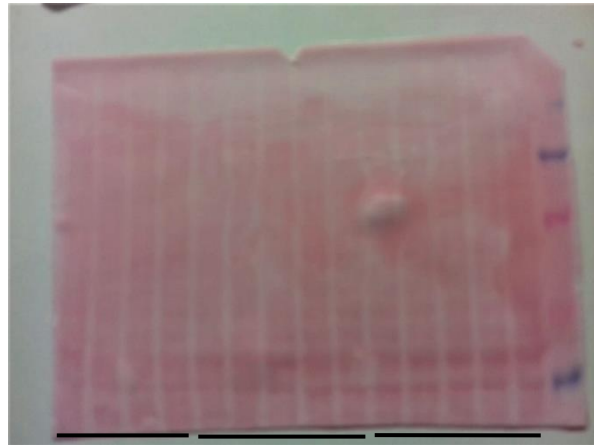
Total extracts



RAGE+/+  
LeptrDb+/+

RAGE+/+  
LeptrDb-/-

RAGE-/-  
LeptrDb-/-

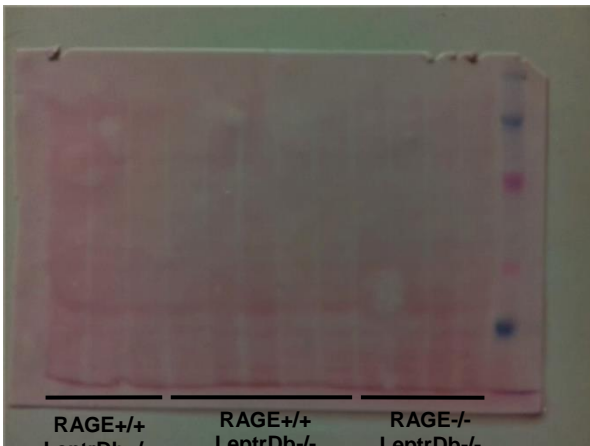


RAGE+/+  
LeptrDb+/+

RAGE+/+  
LeptrDb-/-

RAGE-/-  
LeptrDb-/-

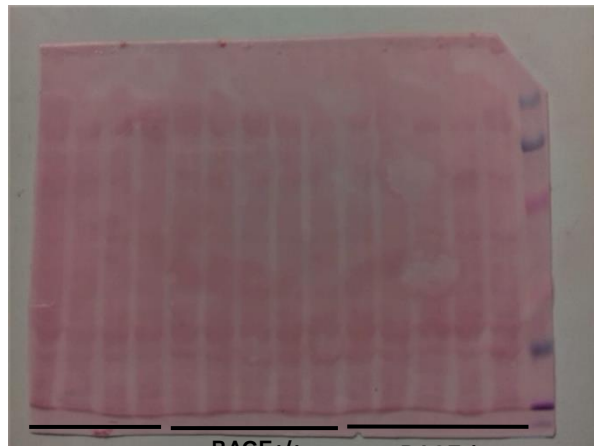
Cytosolic extracts



RAGE+/+  
LeptrDb+/+

RAGE+/+  
LeptrDb-/-

RAGE-/-  
LeptrDb-/-



RAGE+/+  
LeptrDb+/+

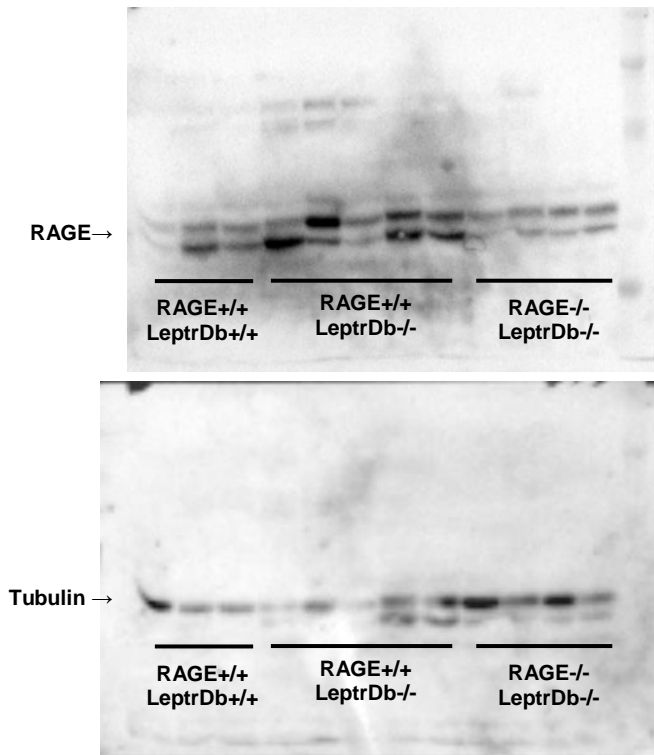
RAGE+/+  
LeptrDb-/-

RAGE-/-  
LeptrDb-/-

# Original blots for western blotting figures

Figure 1.

A



E

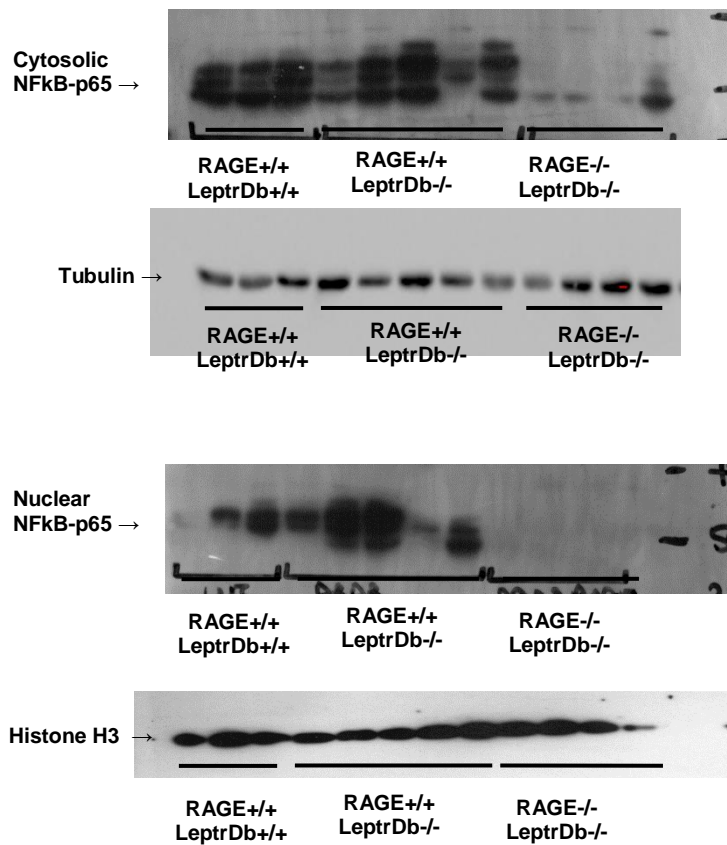


Figure 2.

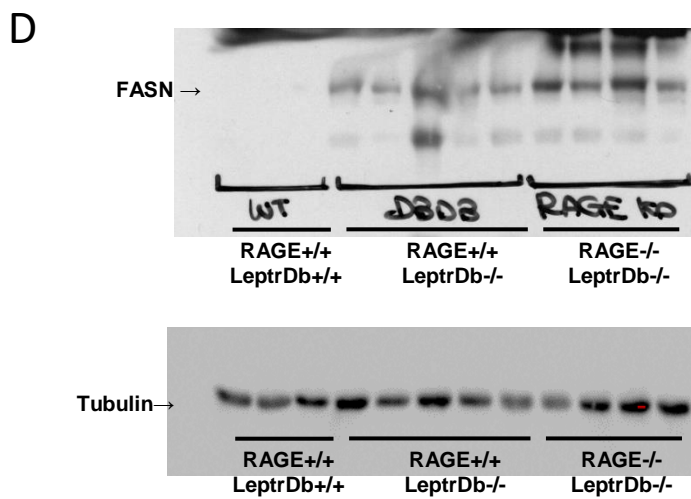
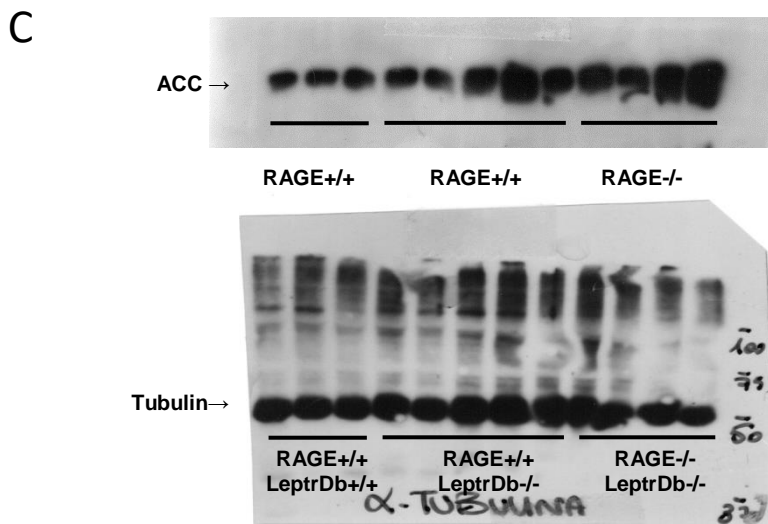
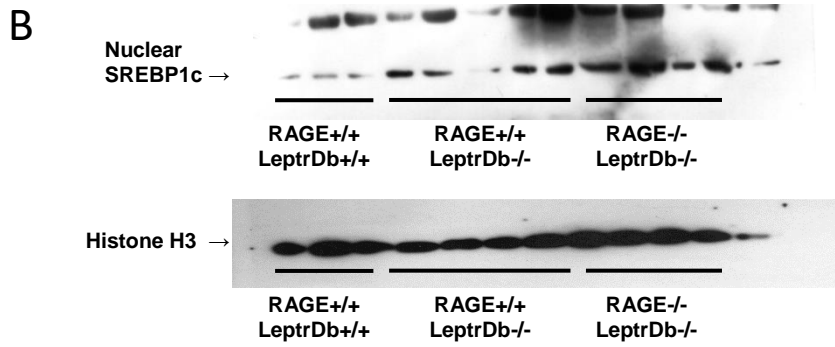


Figure 3.

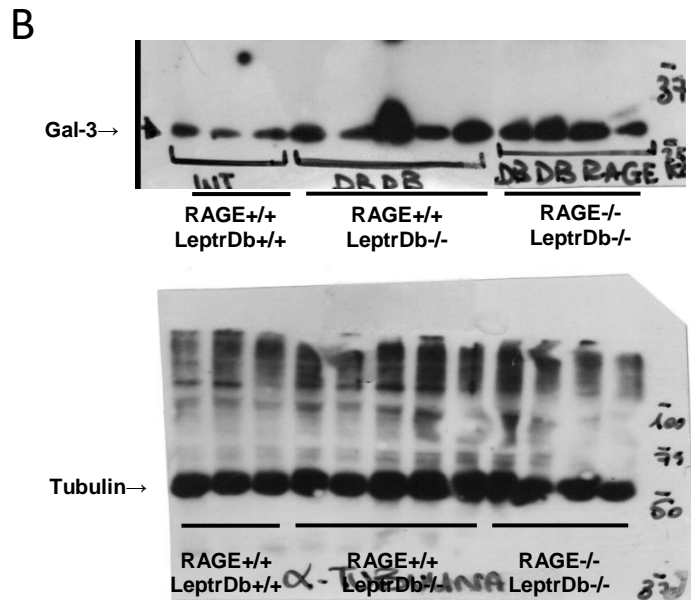
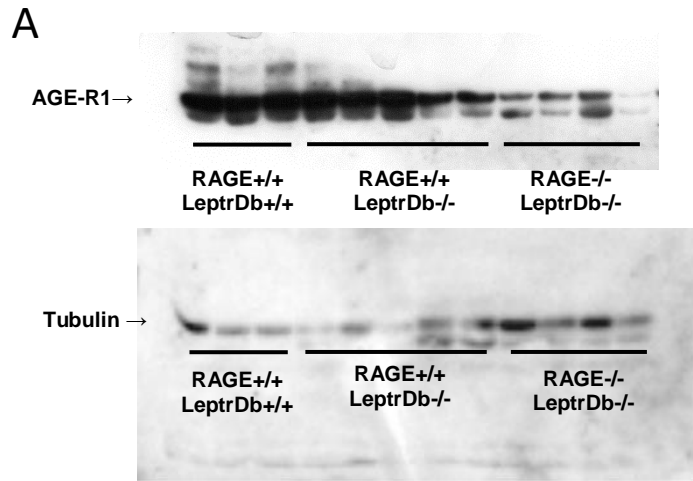


Figure 4.

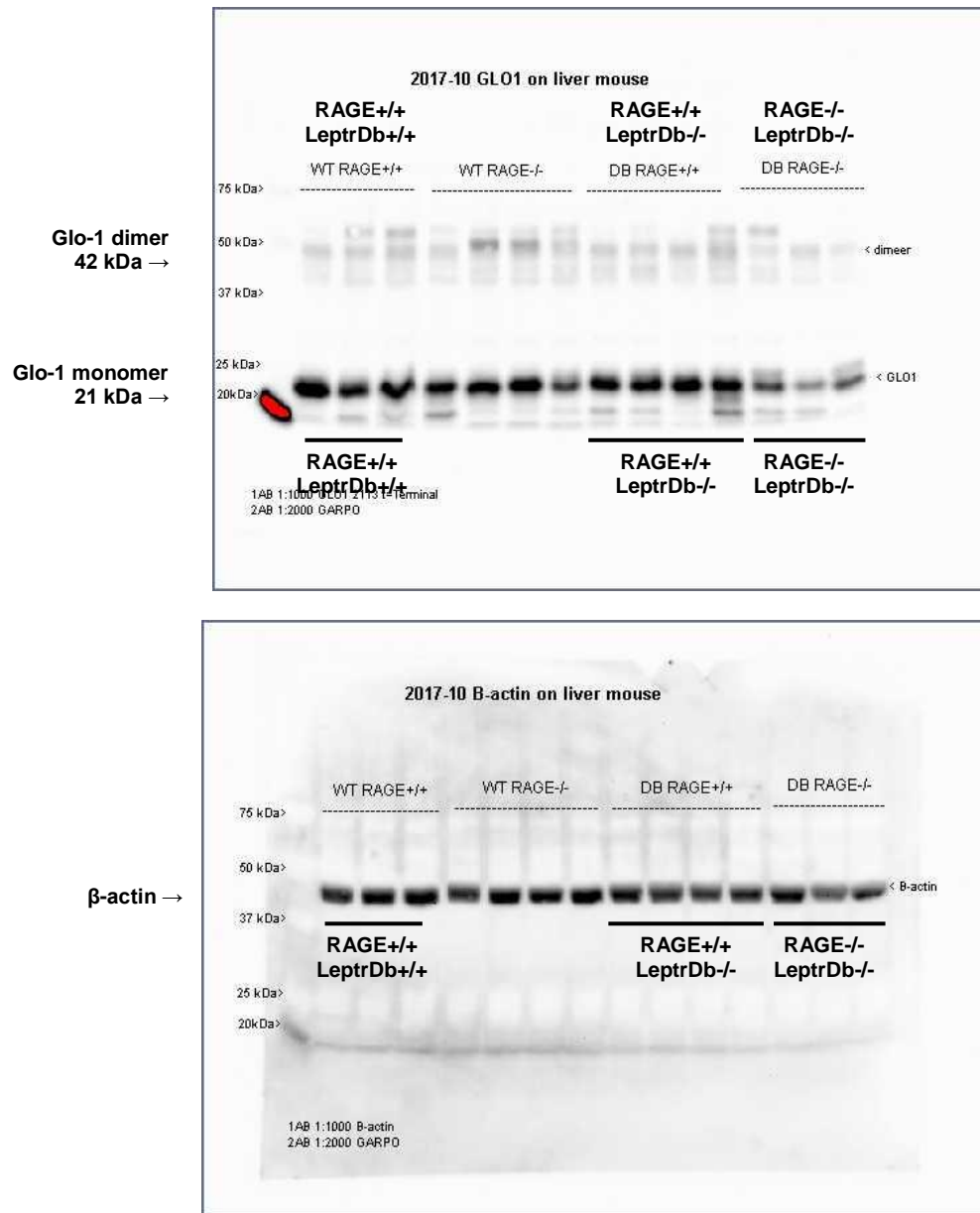
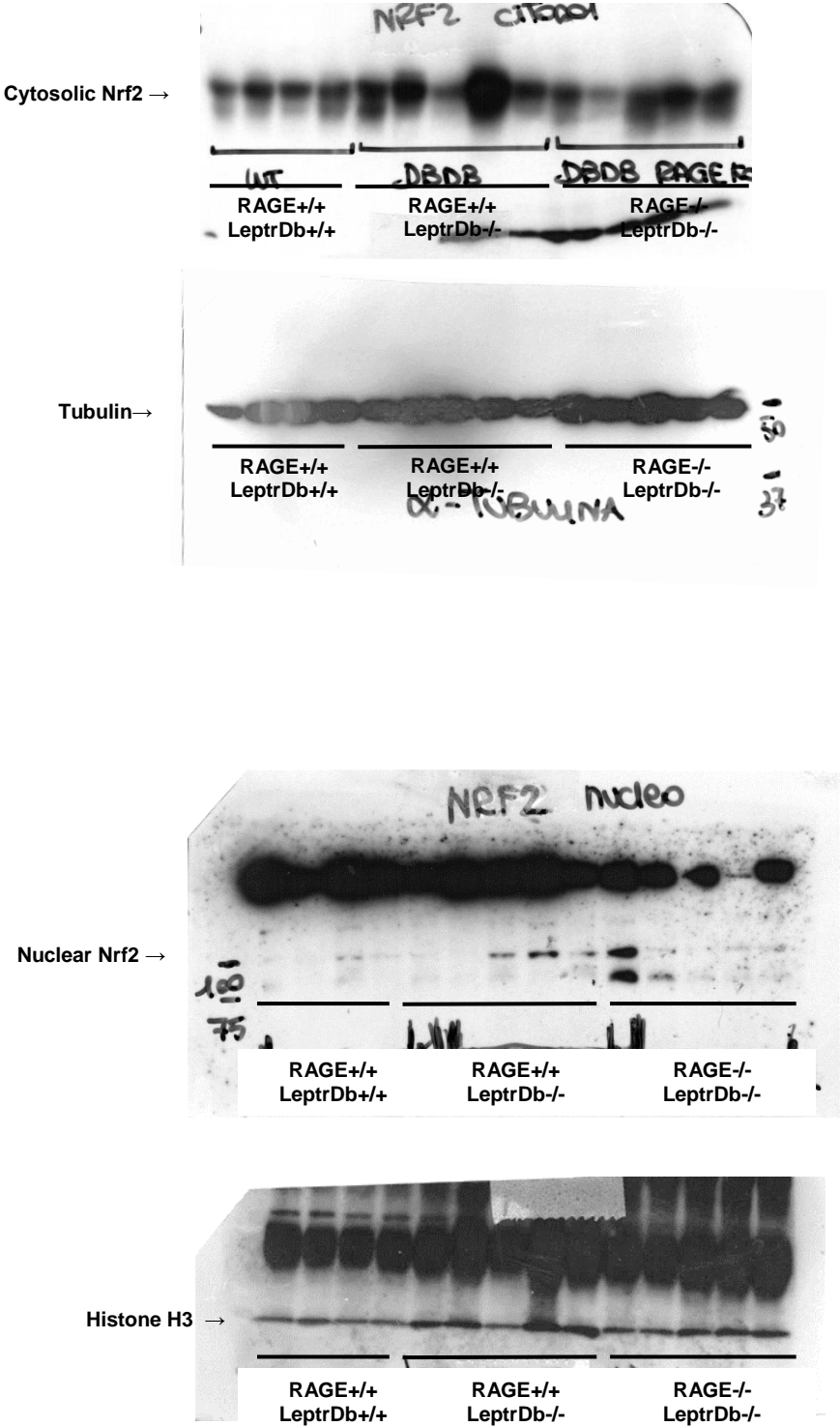


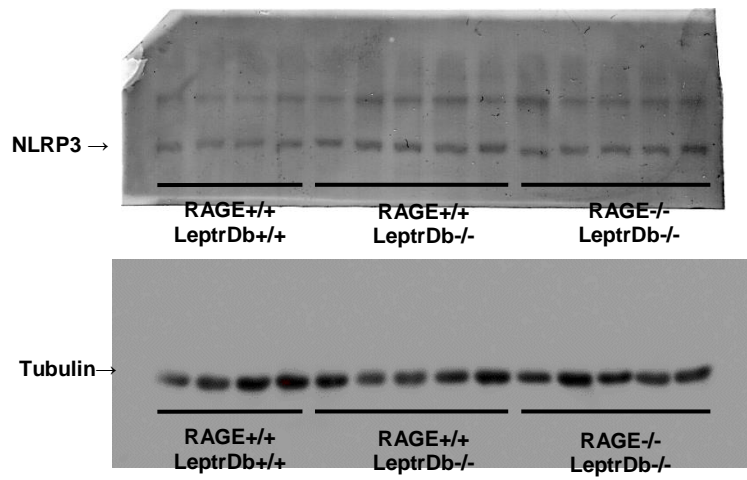
Figure 5.

B

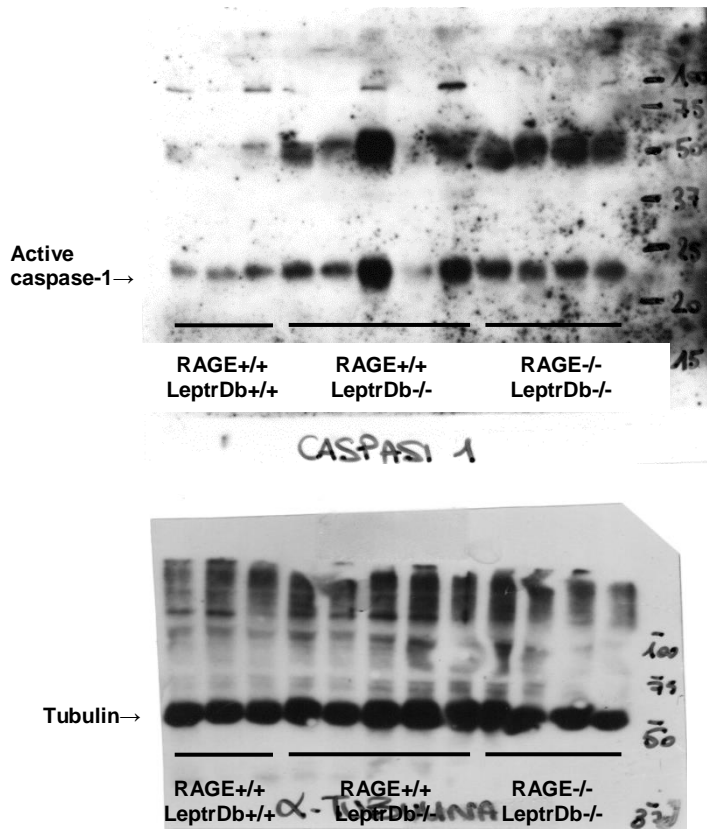




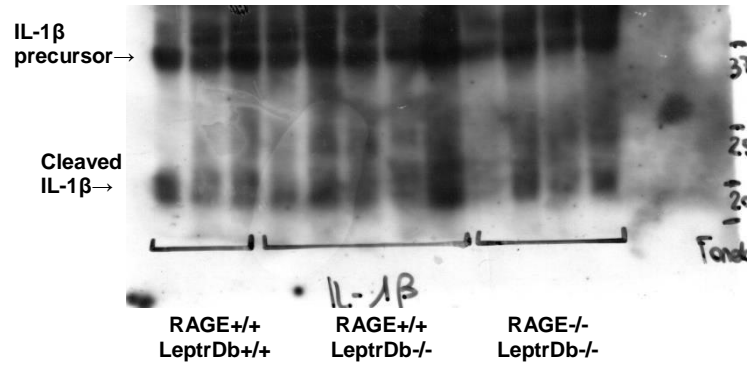
C



D



E



F

