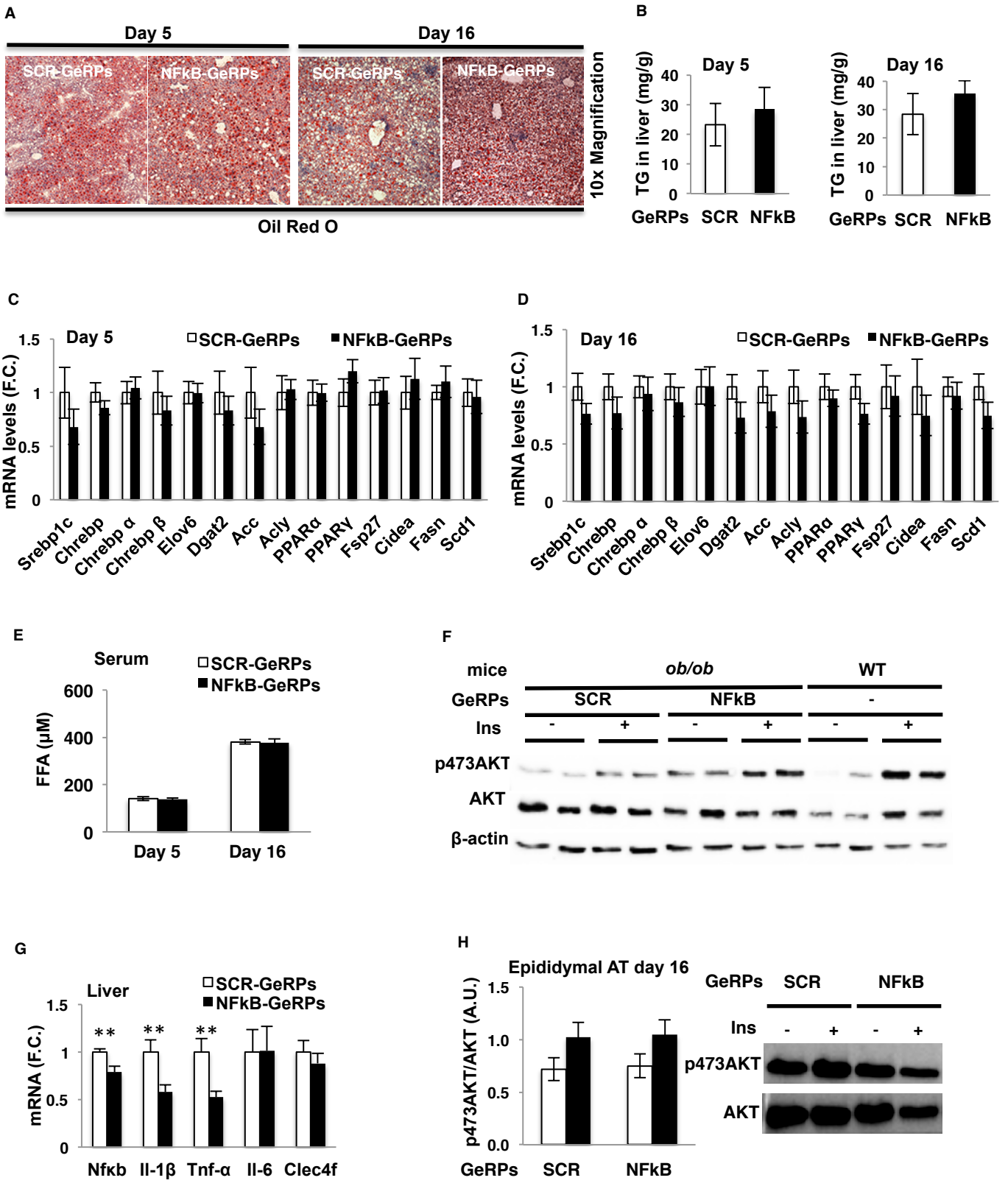
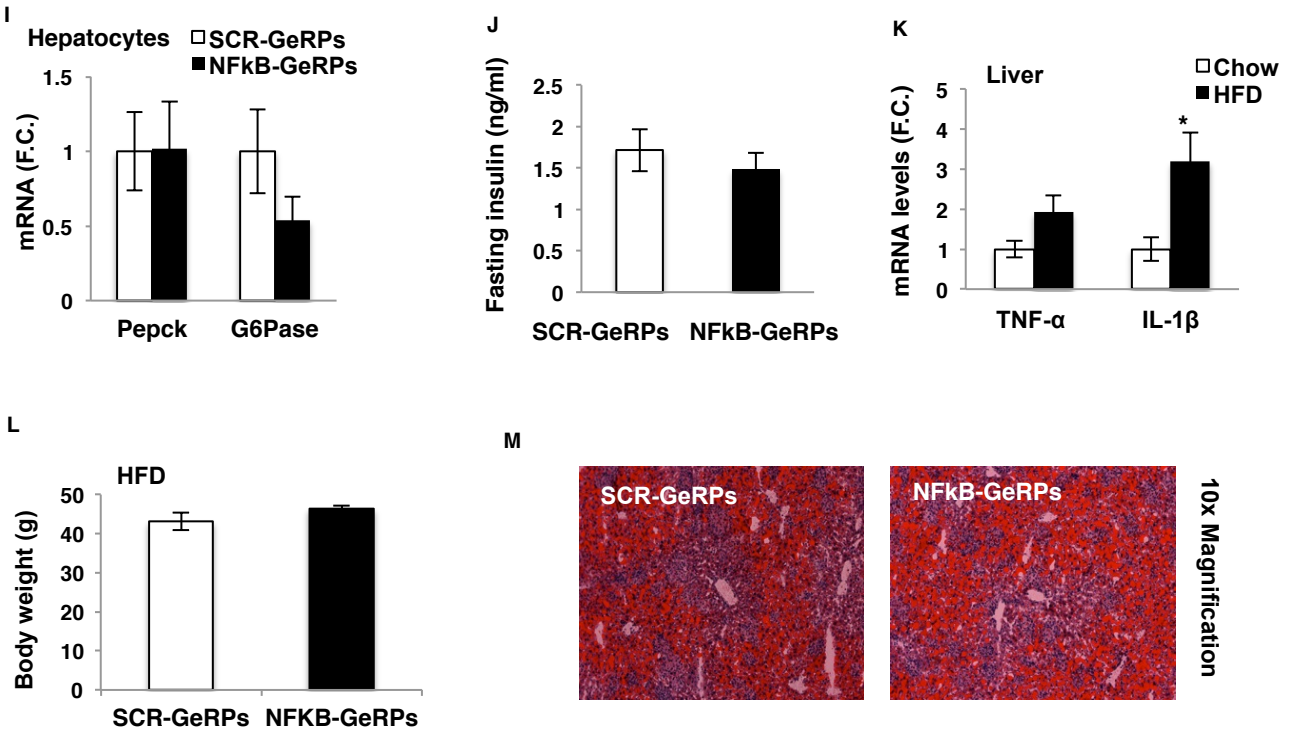

A
Day 5
Day 16
SCR-GeRPs
NFkB-GeRPs
SCR-GeRPs
NFkB-GeRPs
10x Magnification
Oil Red O
B
Day 5
TG in liver (mg/g)
40
30
20
10
0
GeRPs SCR NFkB
Day 16
TG in liver (mg/g)
40
30
20
10
0
GeRPs SCR NFkB
C
Day 5
SCR-GeRPs
NFkB-GeRPs
mRNA levels (F.C.)
1.5
1
0.5
0
Srebp1c
Chrebp
Chrebp α
Chrebp β
Elov6
Dgat2
Acc
Acly
PPARα
PPARγ
Fsp27
Cidea
Fasn
Scd1
D
Day 16
SCR-GeRPs
NFkB-GeRPs
mRNA levels (F.C.)
1.5
1
0.5
0
Srebp1c
Chrebp
Chrebp α
Chrebp β
Elov6
Dgat2
Acc
Acly
PPARα
PPARγ
Fsp27
Cidea
Fasn
Scd1
E
Serum
SCR-GeRPs
NFkB-GeRPs
FFA (μM)
600
400
200
0
Day 5
Day 16
F
mice
ob/ob
WT
GeRPs
SCR
NFkB
-
Ins
-
+
-
+
-
+
p473AKT
AKT
β-actin
G
Liver
SCR-GeRPs
NFkB-GeRPs
mRNA (F.C.)
1.5
1
0.5
0
**
**
**
Nfκb
Il-1β
Tnf-α
Il-6
Clec4f
H
Epididymal AT day 16
p473AKT/AKT (A.U.)
1.5
1.0
0.5
0.0
GeRPs
SCR
NFkB
GeRPs
SCR
NFkB
Ins
-
+
-
+
p473AKT
AKT



Supplemental Figure S4: (A) Oil Red O staining (magnification 10x, scale bar: 200μm). **(B)** TG content in the liver of *ob/ob* mice treated 5 days or 15 days with either SCR-GeRPs and NFκB-GeRPs (n= 11-13) and **(C-D)** mRNA levels of lipogenic genes in liver (n=5). **(E)** Serum FFA levels. **(F)** Representative western blot of total and activated (pSer473) Akt in liver. **(G)** mRNA levels of inflammatory genes in the liver of *ob/ob* mice treated 15 days with SCR-GeRPs and NFκB-GeRPs (n= 11-13). **(H)** Representative western blot and densitometry using antibodies against p473Akt, total Akt and actin using epididymal adipose tissue lysates (n=4-5). **(I)** mRNA levels of gluconeogenic genes in isolated hepatocytes of *ob/ob* mice treated 5 days with SCR-GeRPs or NFκB-GeRPs (n= 11-13). **(J)** Fasting serum insulin. **(K)** Expression of inflammation genes in the liver of mice fed a chow or HFD for 24 weeks (n=5). **(L)** Body weight of 24 week-HFD after a 15-day treatment with SCR- or NFkB-GeRPs (n=5). **(M)** Liver section of 24 week-HFD-fed mice treated with SCR- or NFkB-GeRPs stained with Oil Red O. Results are presented as mean of F.C. normalized to SCR-GeRPs treated mice ± SEM. *p < 0.05; **p < 0.01. The statistical significance was analyzed by t-test or ANOVA followed by Tukey post-test.