Supplementary informations for Additional file 2

1) Figure S1a: The promoter regions of the *ICAM1*, *KLF6*, and *JUN* genes and the positions of Sp1, NFκB, and AP1 binding sites based on the current literature [19-21] are shown in the diagram. Black bars indicate PCR amplicon sizes for the ChIP assay. I: Input control lysate without immunoprecipitation. IgG: negative control using IgG. N and H indicate normoxia and hypoxia (1% O_2 for 16 h), respectively.
2) Figure S1, S2a,c, S3, S4, and S6: Cells were cultured for 16h.
3) Figure S2b, S5, S7a, and S8a: Cells were cultured for 24h.
4) Figure S2a,c, S3d,e, S4b, S5b,d, S6b, and S9a: Data shown are the mean (n = 3) ± SD.
5) Figure S1b: Data shown are the mean (n = 2) ± SD.
6) Figure S4a: α-tubulin and histone H3 were used as markers for cytoplasm and nuclei, respectively.
7) Figure S6a: Lanes were run on the same gel but were noncontiguous (separated by black line).
8) Figure S7a: Subsequently, cell blocks containing cells embedded in agarose and fixed in 10% neutral formaldehyde were prepared.
9) Figure S8b,c: Data shown are the mean (n = 3) ± SD. **P* = 0.002; ***P* = 0.03.
10) Figure S9a: Cells were cultured under normoxia with FCS treatment, and then cell viability was determined by MTS assay.
11) Figure S9b, Tumors derived from OVISE cells transfected with shRNAs were isolated at day 27 post-cell injection.
12) Figure S10e: Data shown are the mean ± SD (N = 8). **P* < 0.0001.

Figure S1

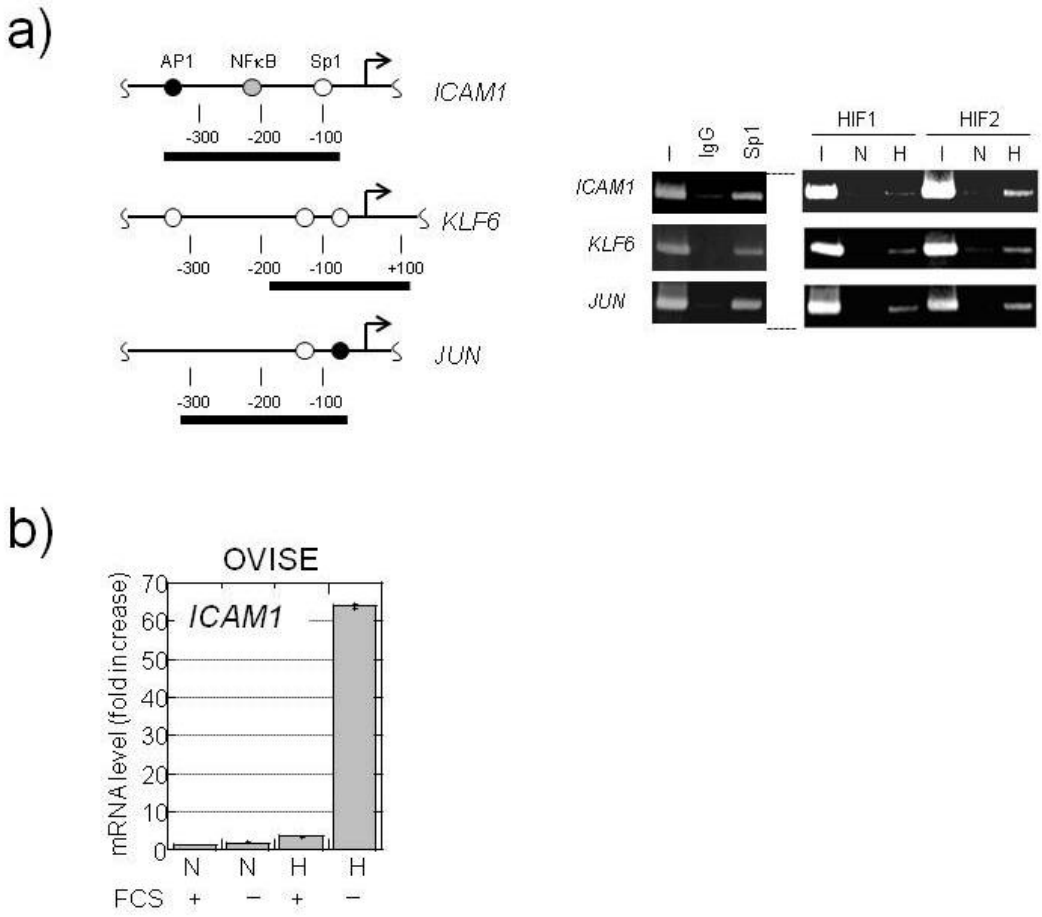
a)
AP1
NFκB
Sp1
ICAM1
-300
-200
-100
KLF6
-300
-200
-100
+100
JUN
-300
-200
-100
I
IgG
Sp1
HIF1
HIF2
I
N
H
I
N
H
ICAM1
KLF6
JUN
b)
OVISE
ICAM1
mRNA level (fold increase)
70
60
50
40
30
20
10
0
N
N
H
H
FCS
+
−
+
−

Figure S2

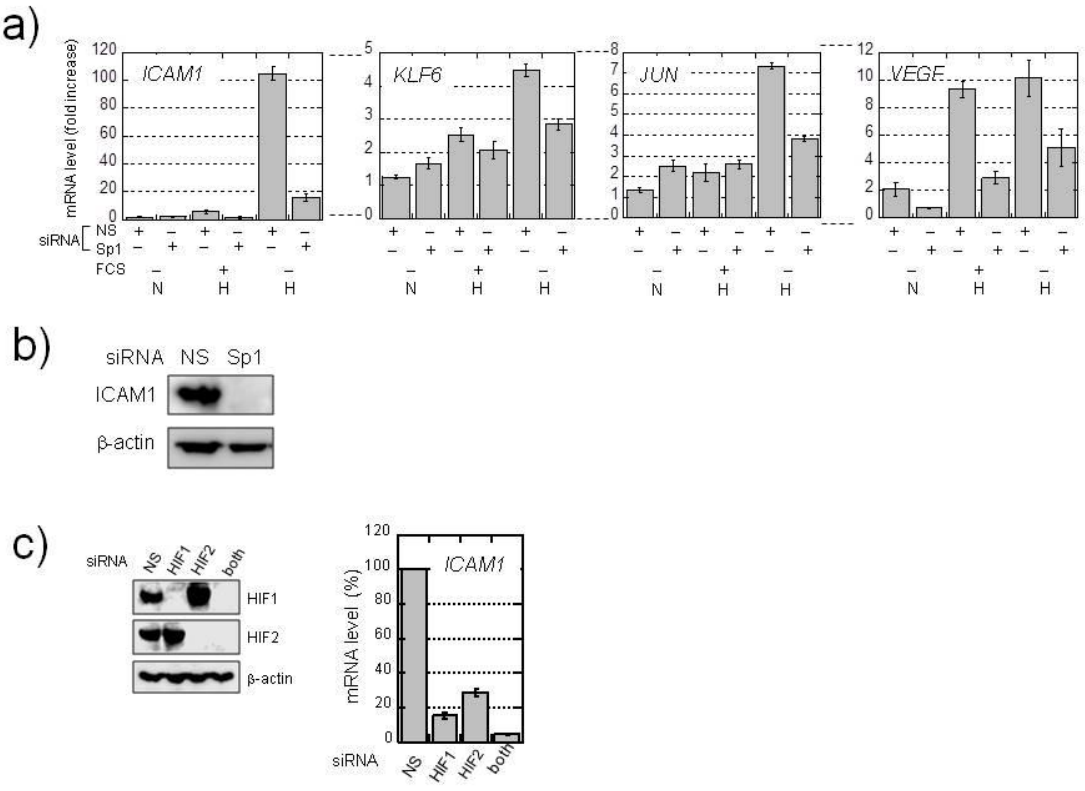
a)
mRNA level (fold increase)
ICAM1
KLF6
JUN
VEGF
siRNA
NS
Sp1
FCS
N
H
H
b)
siRNA NS Sp1
ICAM1
β-actin
c)
siRNA NS HIF1 HIF2 both
HIF1
HIF2
β-actin
ICAM1
mRNA level (%)
siRNA
NS
HIF1
HIF2
both

Figure S3

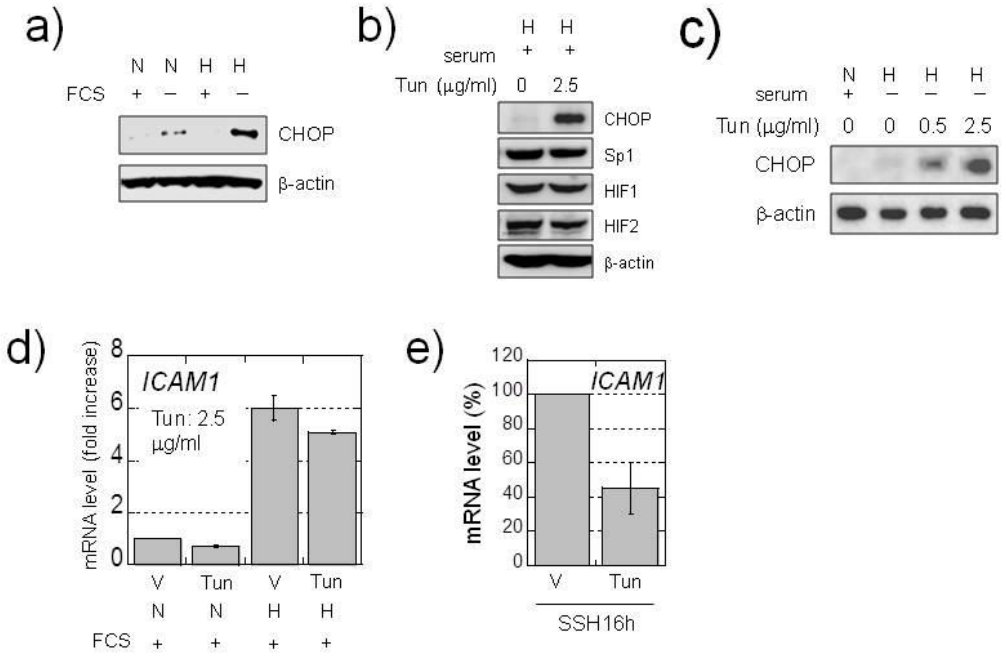

Figure S4

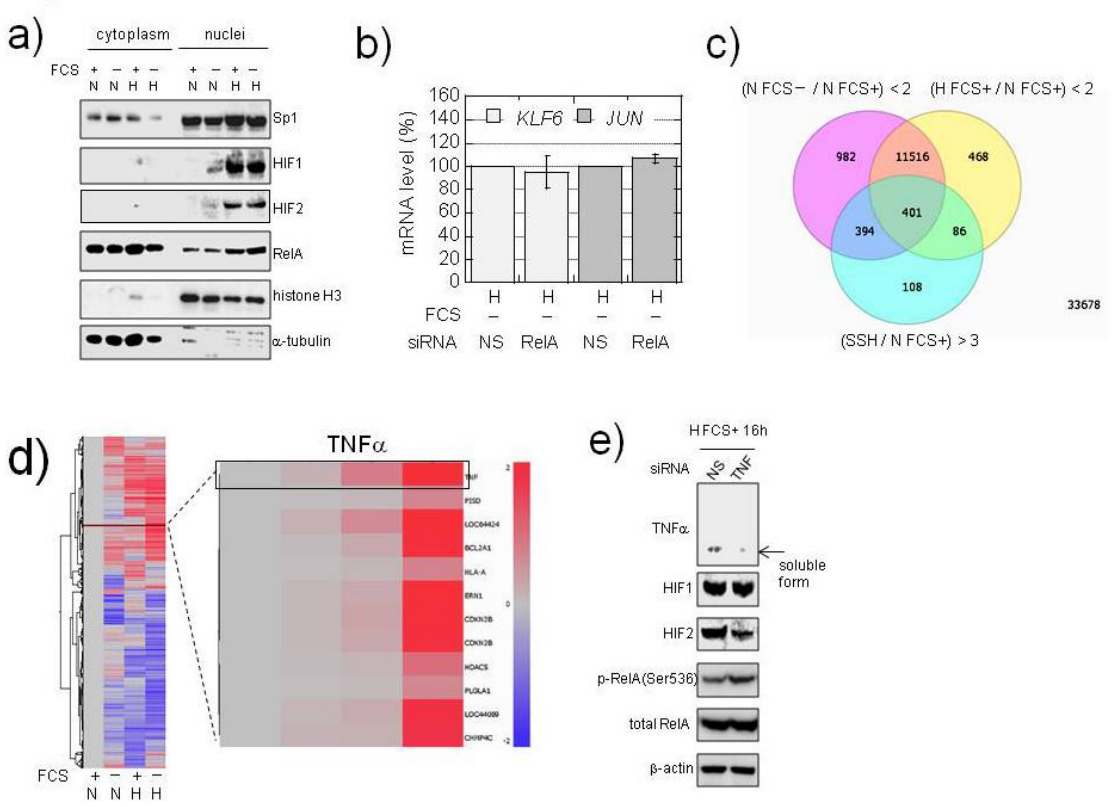

Figure S5

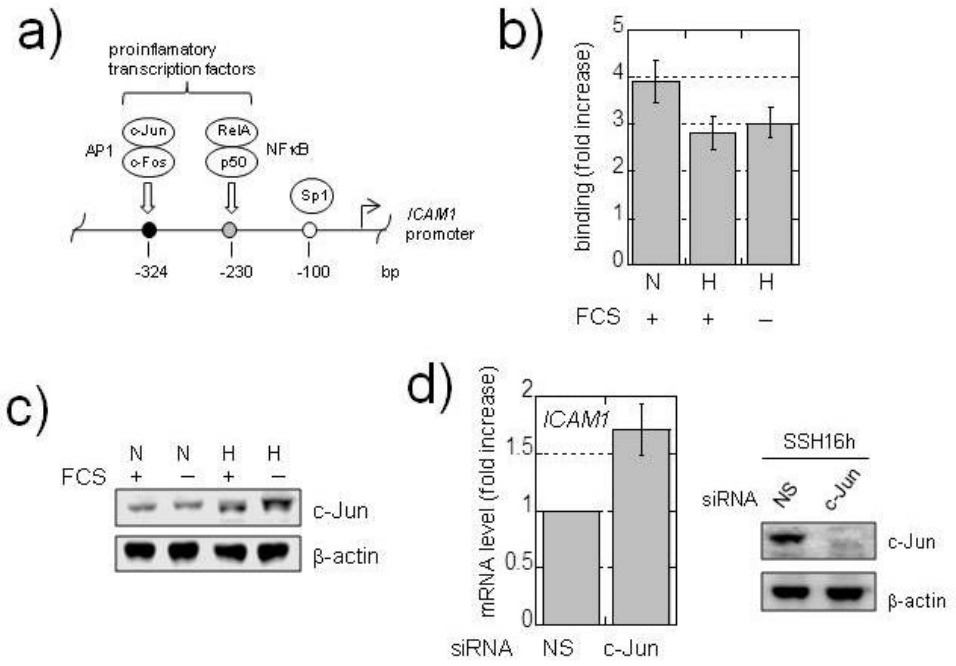

Figure S6

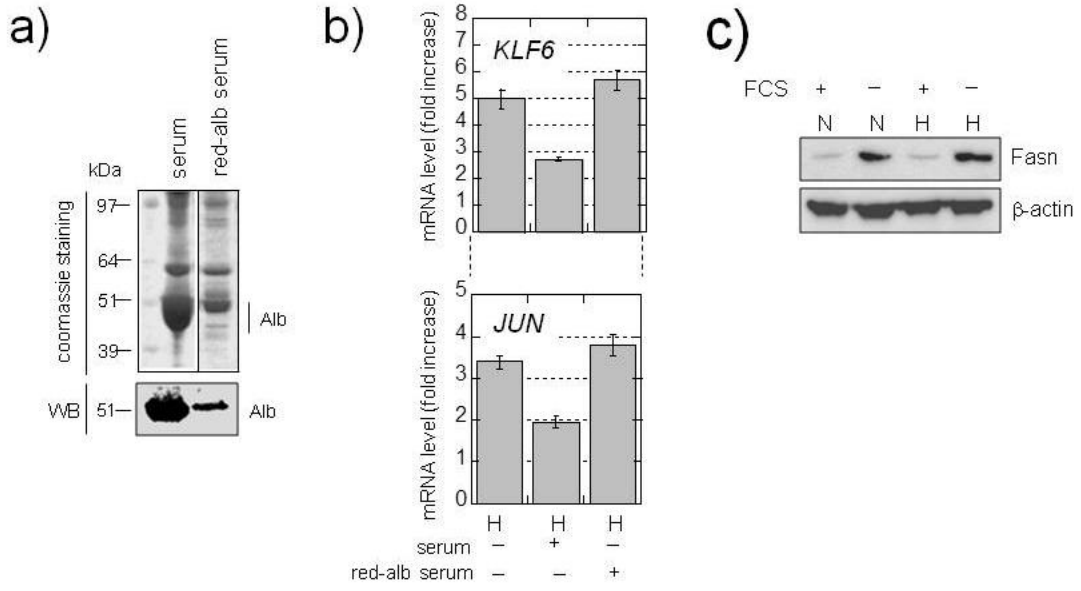

Figure S7

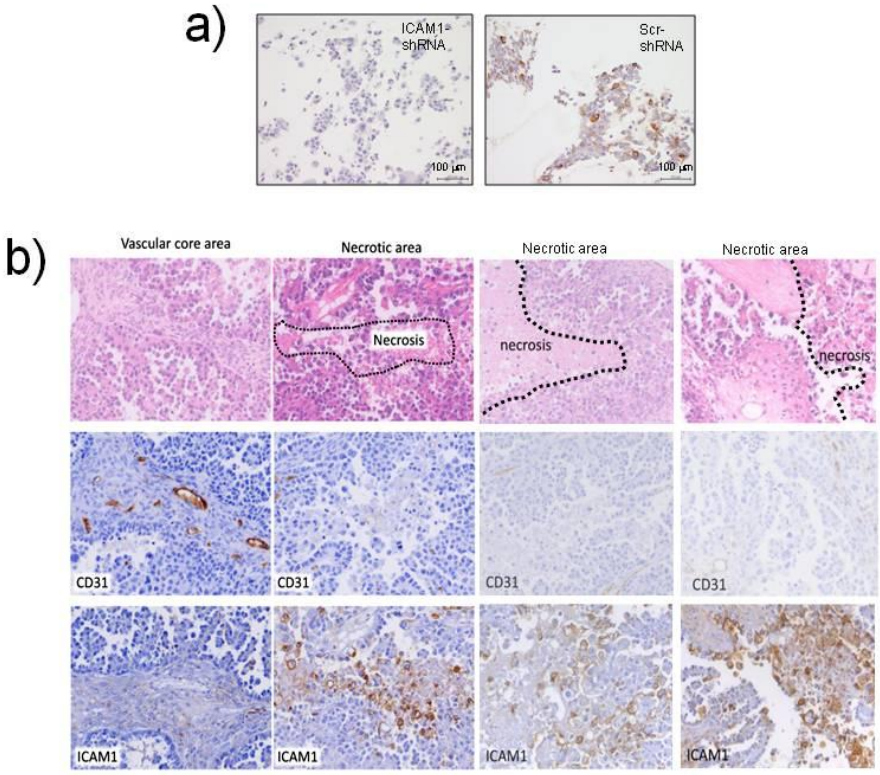
a)
ICAM1-shRNA
Scr-shRNA
100 µm
100 µm
b)
Vascular core area
Necrotic area
Necrotic area
Necrotic area
Necrosis
necrosis
necrosis
CD31
CD31
CD31
CD31
ICAM1
ICAM1
ICAM1
ICAM1

Figure S8

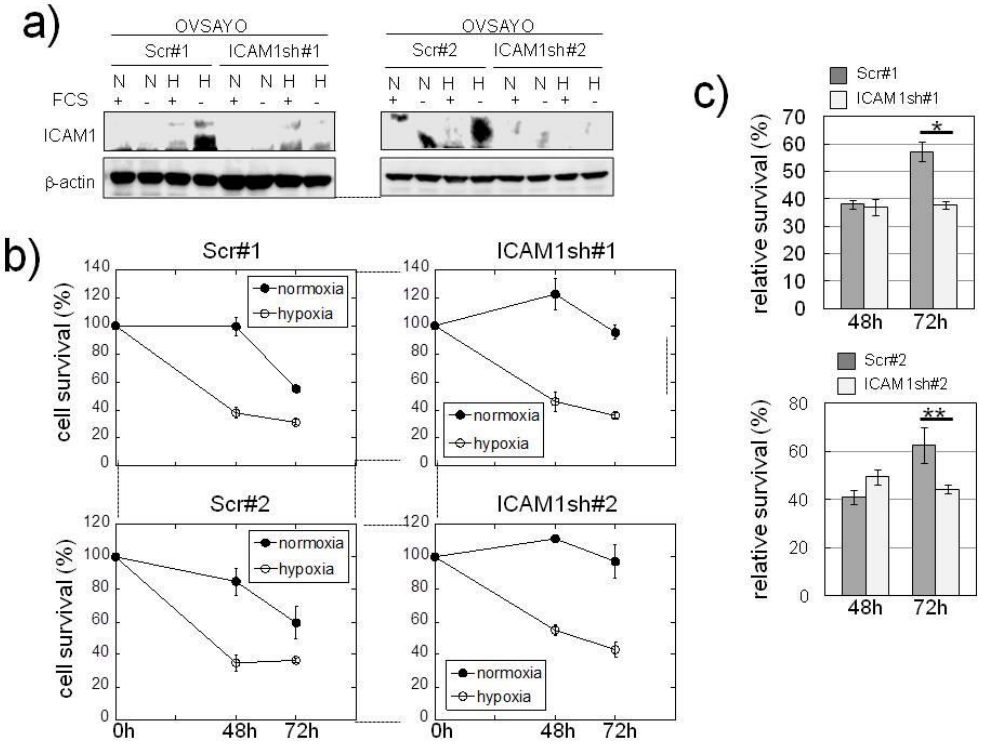

Figure S9

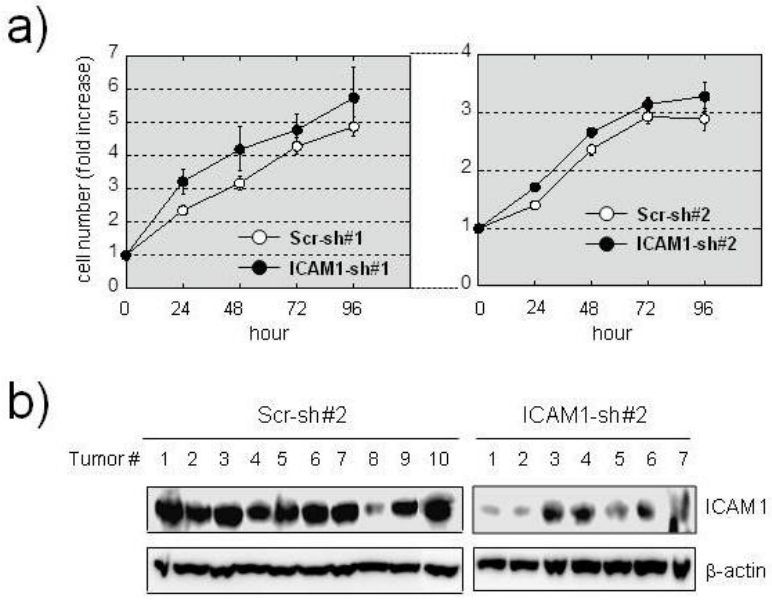

Figure S10

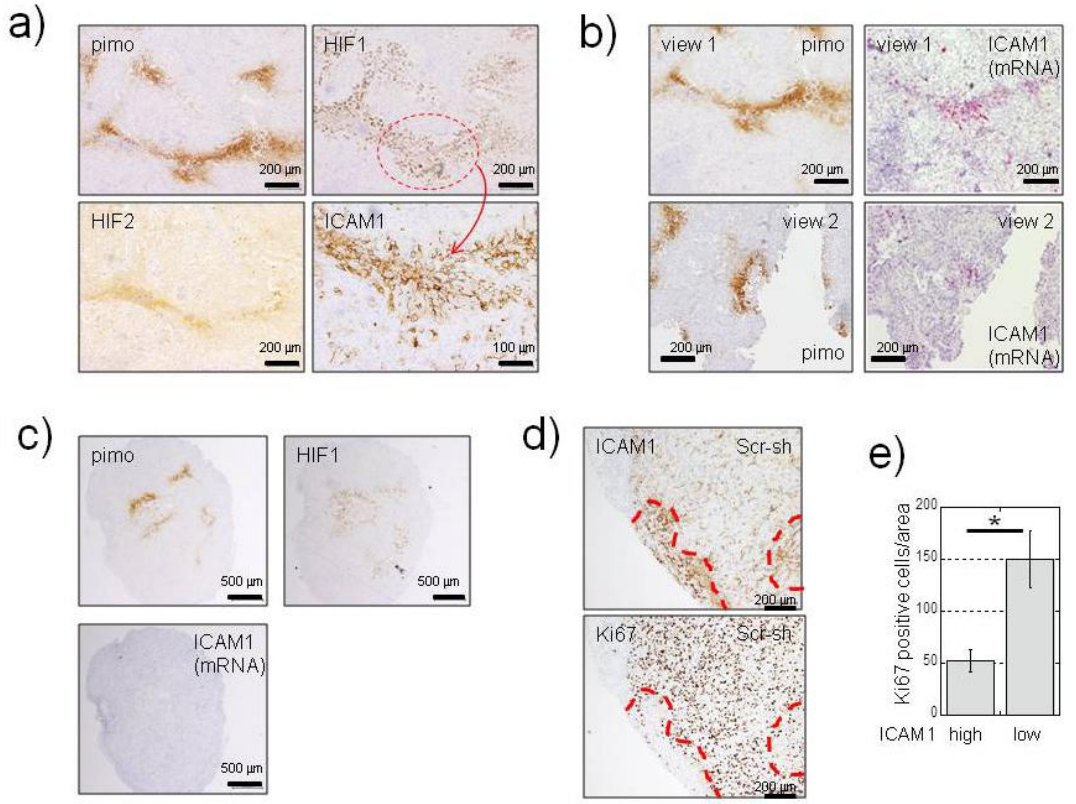

Figure S11