SUPPLEMENTARY FIGURES

A

B

COAD
(num(T)=275; num(N)=41)

READ
(num(T)=92; num(N)=10)

C

Subgroup		No. of Patients AKR1B10(-)/(+)		Hazard Ratio(95 %CI)	P Value
Overall		67/68		3.880(2.403-6.266)	<0.001
Age (years)					
	≤60	30/27		3.247(1.584-6.657)	0.001
	>60	37/41		4.554(2.388-8.684)	<0.001
Gender					
	Male	36/41		4.374(2.331-8.208)	<0.001
	Female	31/27		3.286(1.551-6.962)	0.002
Size(cm)					
	<5	24/35		3.811(1.881-7.719)	<0.001
	≥5	43/33		3.651(1.880-7.092)	<0.001
Venous invasion					
	Negative	45/51		3.927(2.157-7.152)	<0.001
	Positive	22/17		3.711(1.632-8.438)	0.002
Neural invasion					
	Negative	40/51		3.780(2.086-6.849)	<0.001
	Positive	27/17		3.719(1.625-8.512)	0.002

-2   2   6   10   14

AKR1B10(-) Better   AKR1B10(+) Better
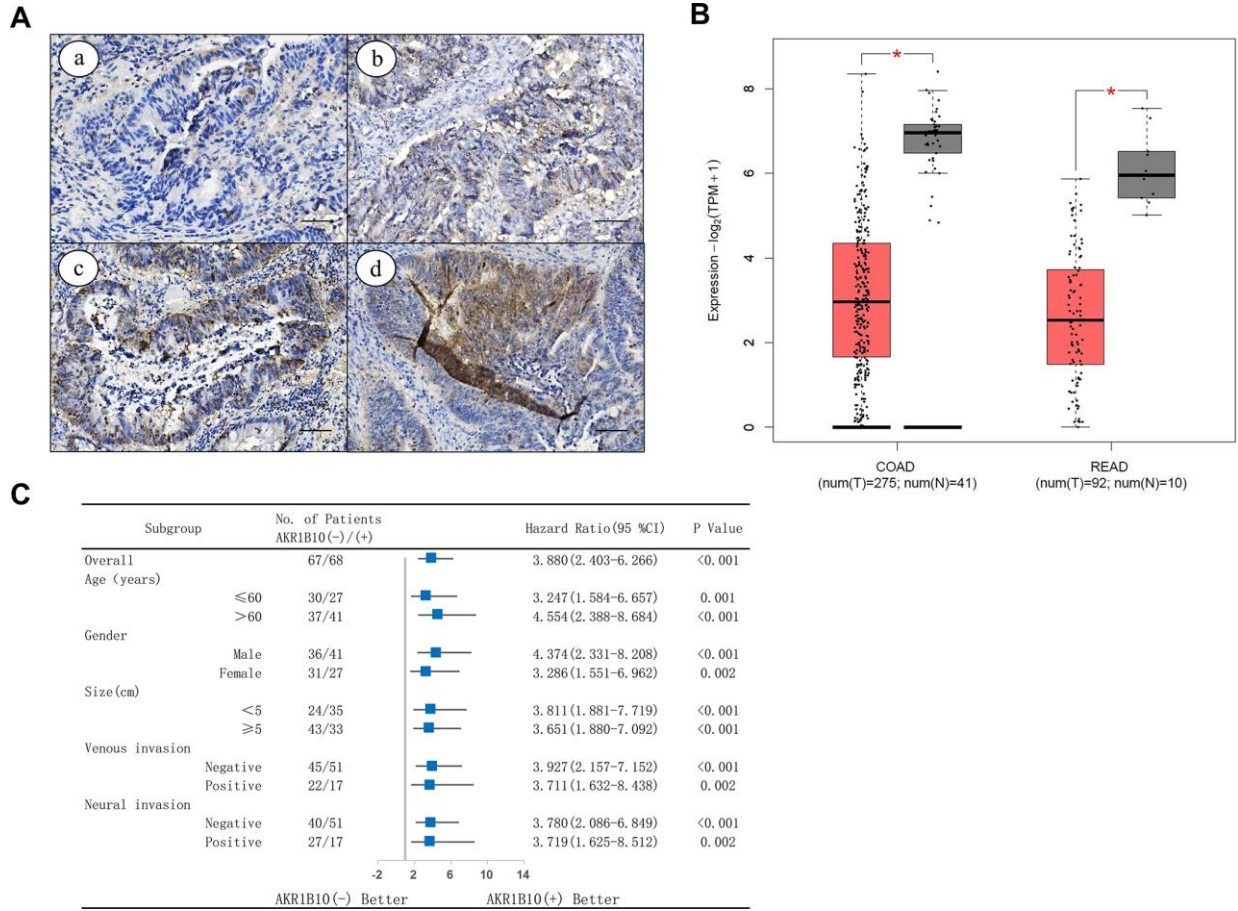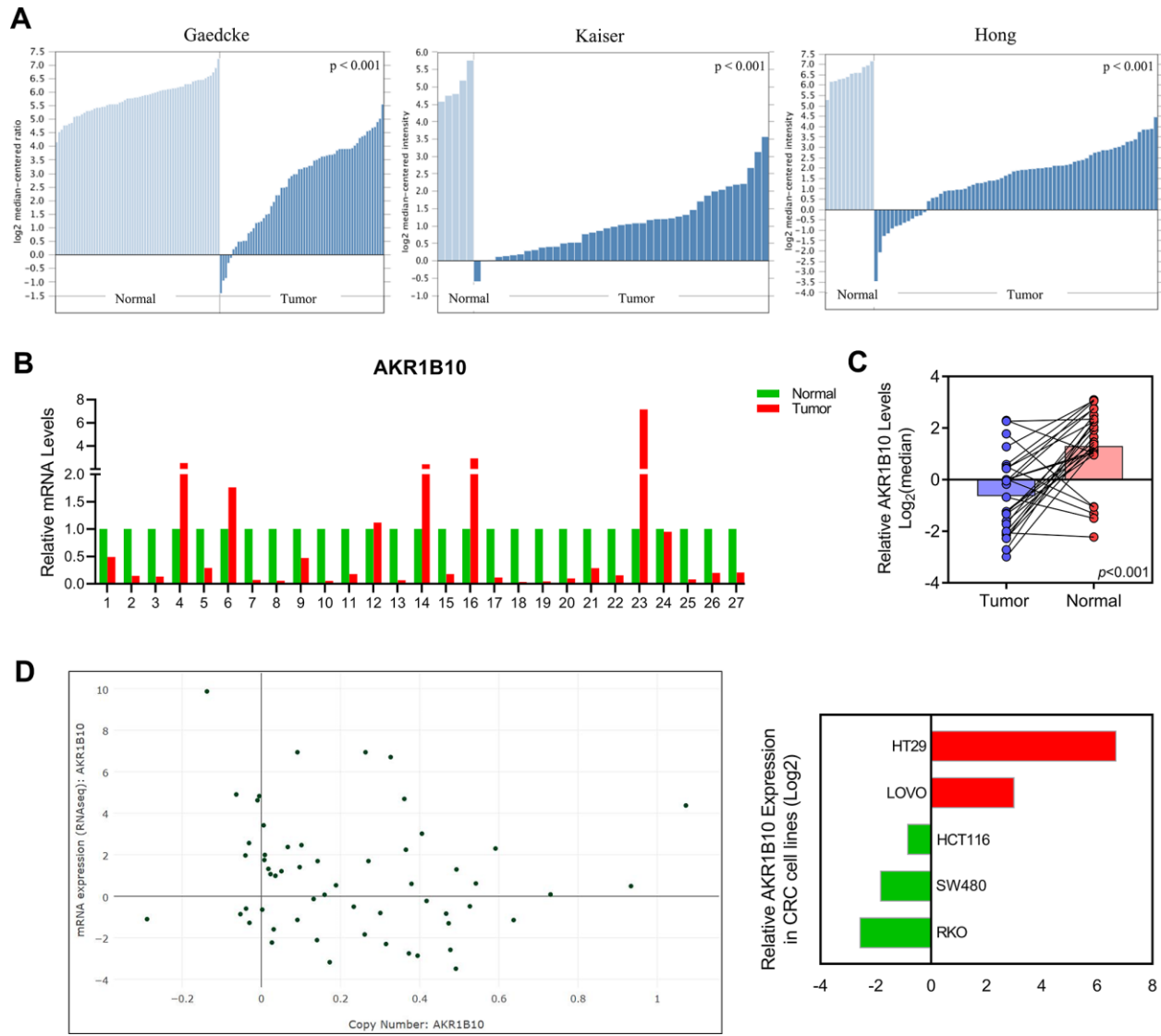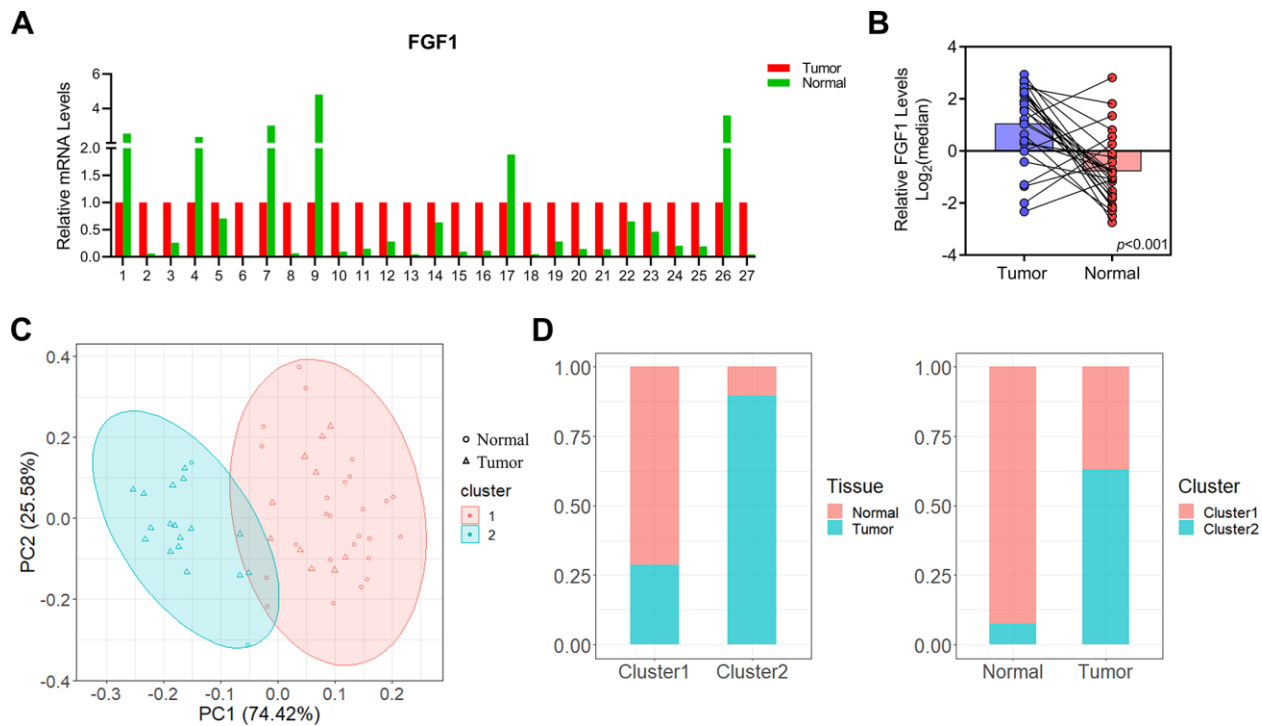
Supplementary Figure 1. Expression of AKR1B10 in CRC in TCGA datasets. (**A**) IHC images showing *in situ* AKR1B10 expression in CRC tissues (scale bar = 100μm). Negative (a), weak (b), positive (c), strong positive (d). (**B**) Comparison of AKR1B10 levels between CRC and paired normal tissues in TCGA datasets by GEPIA platform. (**C**) OS of AKR1B10^{pos} and AKR1B10^{neg} CRC patients in the subgroups of age, gender, tumor size, venous invasion and neural invasion. CRC, colorectal cancer. * *P* < 0.05.

Supplementary Figure 2. AKR1B10 expression in CRC tissues and cell lines. (**A**–**B**) AKR1B10 mRNA levels in (**A**) CRC and non-tumor tissues in Oncomine datasets and (**B**) 27 paired CRC and normal tissues. (**C**) Relative AKR1B10 expression in 27 paired CRC and normal tissues. (**D**) AKR1B10 expression in 5 CRC cell lines from the CCLE platform. CRC, colorectal cancer. CCLE, Cancer Cell Line Encyclopedia.

Supplementary Figure 3. FGF1 expression in CRC and paired normal tissues. (**A**) FGF1 mRNA levels in 27 paired CRC and normal tissues and (**B**) the relative expression levels. (**C**) Stratification of the 27 pairs of CRC and normal tissues into cluster 1 (red) and cluster 2 (green) according to AKR1B10 and FGF1 mRNA levels. (**D**) Percentage of tumor and normal samples in each cluster. CRC, colorectal cancer.