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Supplemental information

FAP promotes metastasis and chemoresistance via regulating YAP1 and macrophages in mucinous colorectal adenocarcinoma

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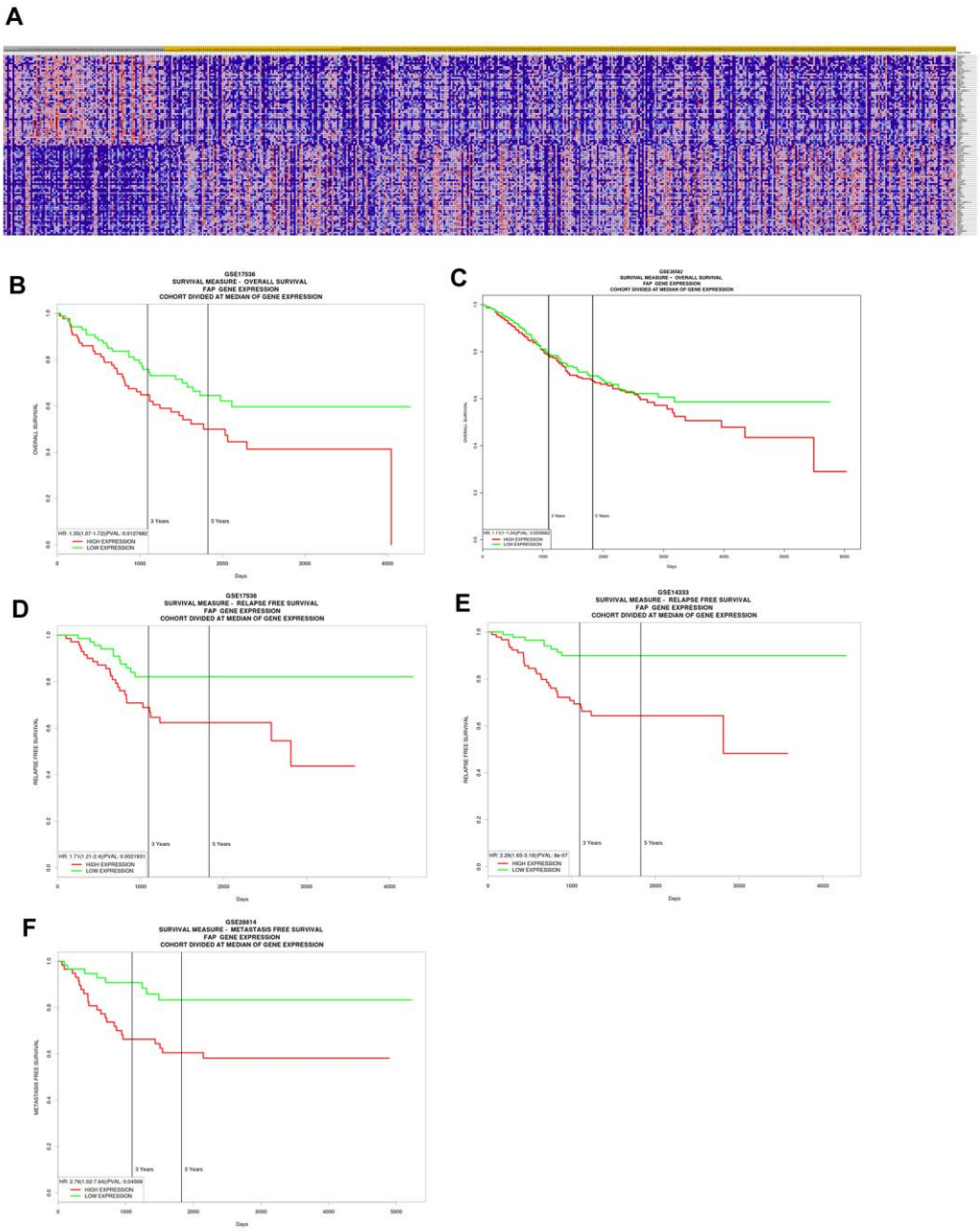
Supplementary Table 1. Correlation between FAP and clinicopathological parameters in Cohort 1, Related to Figure 1.

	FAP Low	FAP High	P value
Gender			
Male	**53**	**37**	**0.639**
Female	**42**	**35**	
Age			
>65	**40**	**67**	**0.2549**
<65	**28**	**32**	
Primay tumor (T) stage			
T1T2	**7**	**2**	**0.3023**
T3T4	**88**	**70**	
Lymph node (N) m etastasis			
N0	**48**	**34**	**0.755**
N+	**47**	**38**	
Distant metastasis (M)			
M0	**86**	**65**	**1.0**
M1	**9**	**7**	
TNM stage			
I	**6**	**2**	**0.912**
II	**39**	**32**	
III	**41**	**31**	
IV	**9**	**7**	
Location			
Left colon	**42**	**44**	**0.0418**
Right colon	**53**	**28**	

Supplementary Table 2. Clinical characteristics of colon cancer patients, Related to Figure 1.

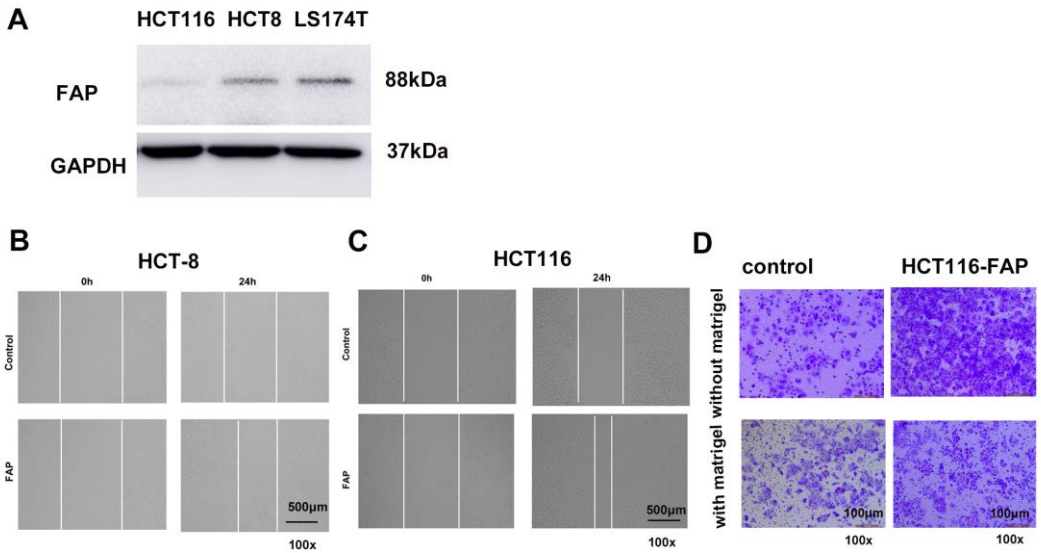
Clinical features	Number
Gender	
Male	**103**
Female	**85**
Age	
Mean± SD	**59.85 ± 13.79**
T stage	
T1	**3**
T2	**8**
T3	**130**
T4	**47**
N stage	
N0	**93**
N1	**52**
N2	**43**
M stage	
M0	**171**
M1(liver metastasis)	**17**
TNM stage	
I	**9**
II	**81**
III	**81**
IV	**17**

Supplementary Figure 1.



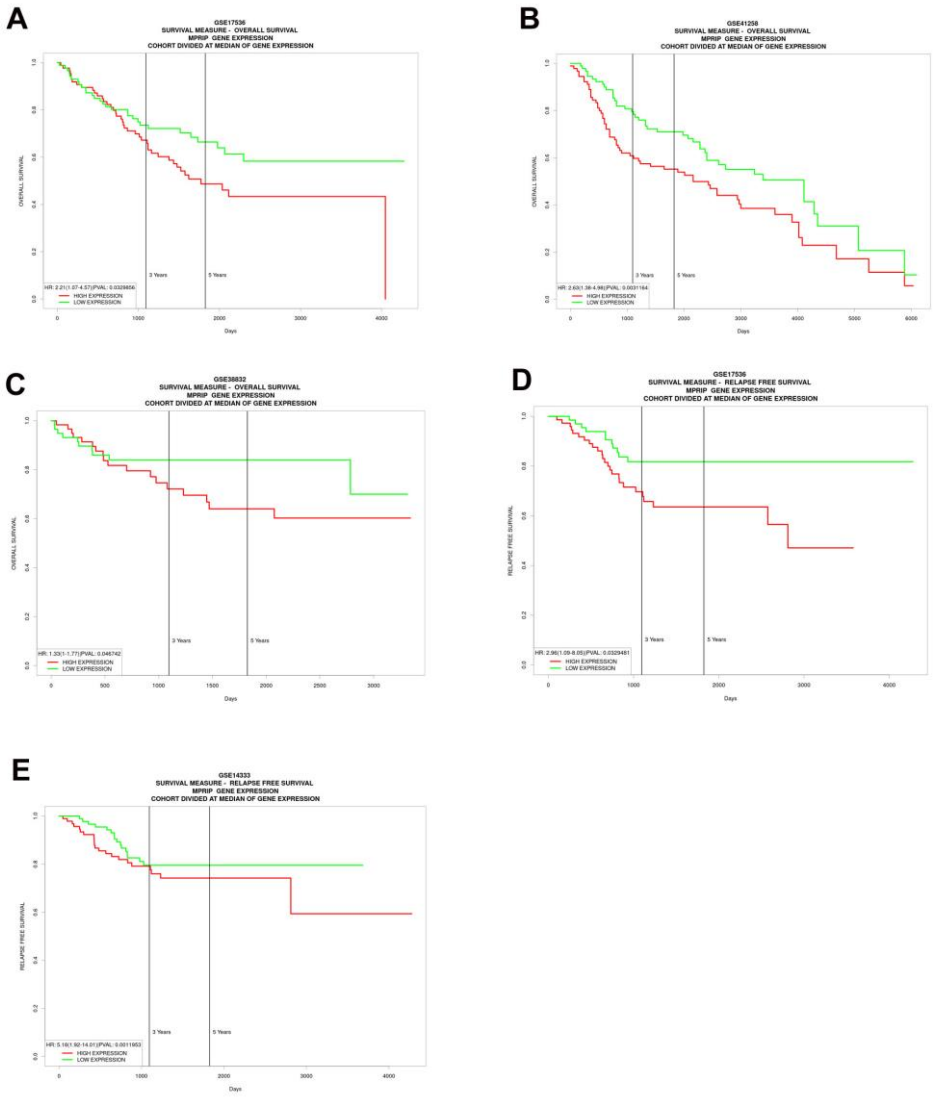
Supplementary Figure 1. The relationship between the expression of FAP in CRC and prognosis, Related to Figure 1. (A) Unsupervised clustering highlighting genome-wide changes in gene expression. Colorectal cancer samples were clustered according to the expression of 50 differentially expressed immune genes ($P < 0.01$) between 585 ACs and 89 MCs samples (TCGA dataset). (B-C) Association of expression level of FAP with OS in CRC patients from GSE17536 and GSE39582. (D-E) Association of expression level of FAP with RFS in CRC patients from GSE17536 and GSE14333. (F) Association of expression level of FAP with metastasis-free survival in CRC patients from GSE28814. Log-rank test was utilized to examine significant differences.

Supplementary Figure 2.



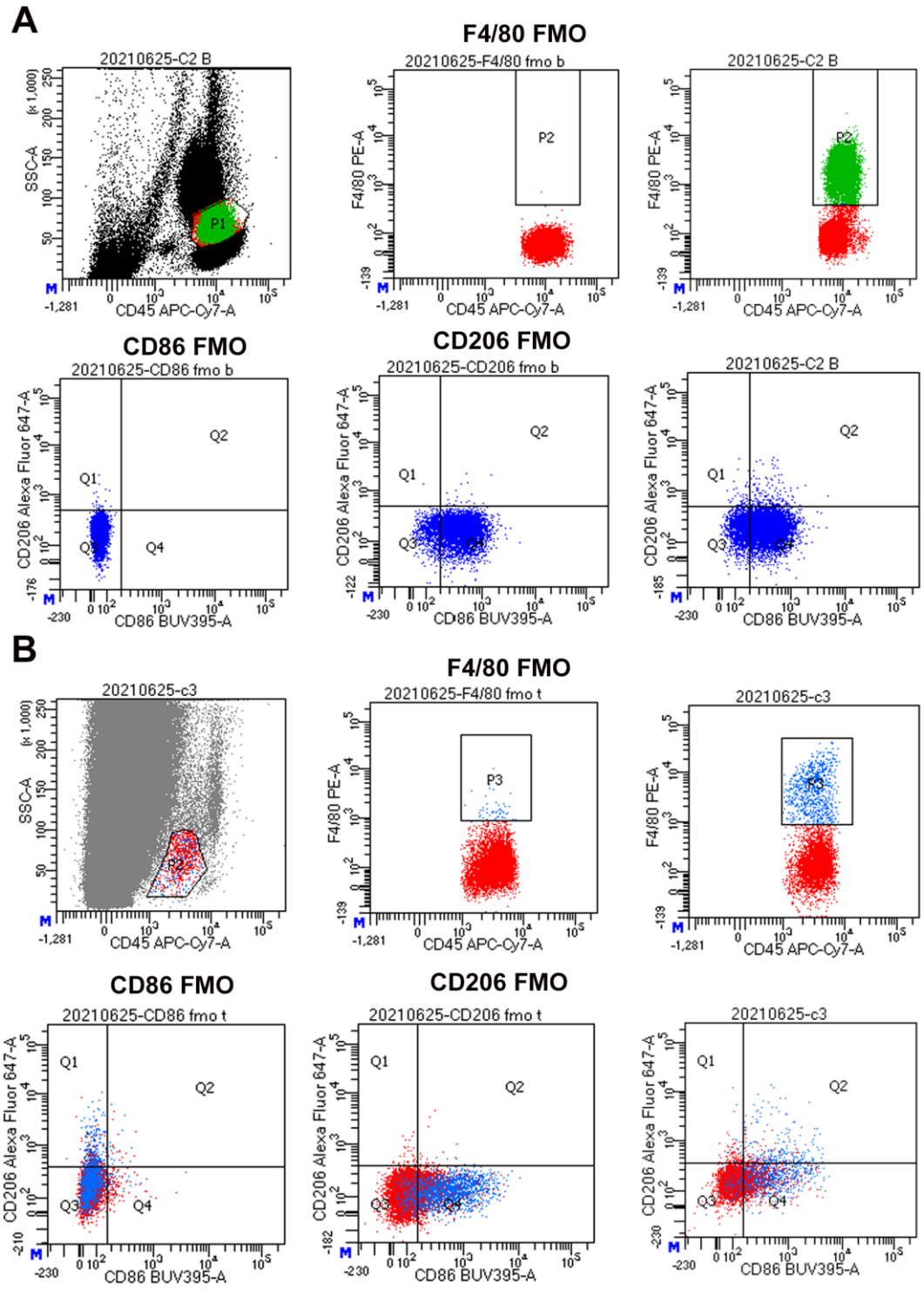
Supplementary Figure 2. **Effect of FAP on invasion and migration of colon adenocarcinoma cells, Related to Figure 2 and Figure 3.** (A) The expression levels of FAP in HCT116, HCT8 and LS174T cells were assayed by Western blotting. (B-C) The effect of FAP on the motility of HCT8 and HCT116 cells by wound-healing assay. The length of scale bar is 500 μm. (D) The Boyden chamber assay was performed with and without matrigel. The length of scale bar is 100 μm.

Supplementary Figure 3.



Supplementary Figure 3. The relationship between the expression of MPRIP in CRC and prognosis, Related to Figure 5. (A-C) Association of expression level of MPRIP with OS in CRC patients from GSE17536, GSE41258 and GSE38832. (D) Association of expression level of MPRIP with RFS in CRC patients from GSE17536 and GSE14333. Log-rank test was utilized to examine significant differences.

Supplementary Figure 4.



Supplementary Figure 4. Flow cytometry gating for analysis of circulating monocytes(A) and TAM(B), Related to Figure 6. TILs were isolated as described in Material and Methods. Stained cells were first gated on lymphocytes based on the SSC-A and CD45, then F4/80, CD206 and CD86. Numbers indicate percentage of positive cells.