Cancers 2020, 12, x S1 of S3

Altered Tissue and Plasma Levels of Fibroblast Activation Protein- α (FAP) in Renal Tumours

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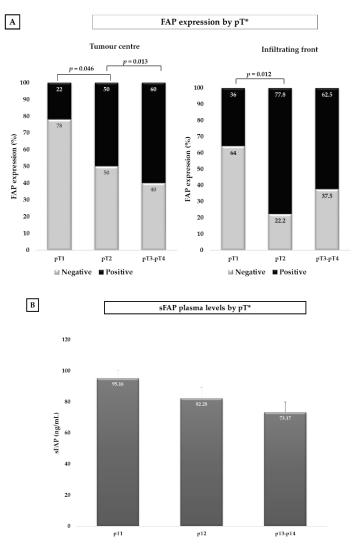


Figure S1. FAP immunostaining in centre (**A**) and border (**B**) of CCRCC tissues in terms of local invasion (pT). FAP positive cases at the centre of the tumour were significantly higher in non-organ-confined and pT2 tumours than in pT1 ones. At the infiltrating front of these non-organ-confined tumours, FAP positive cases almost duplicated the expression of pT1 tumours, although it did not reach statistical significance, and pT2 tumours had higher FAP expression than pT1 ones.

Cancers 2020, 12, x S2 of S3

Classification and Regression Tree (CRT) for soluble FAP and CCRCC patients' cancer-specific survival (CSS)

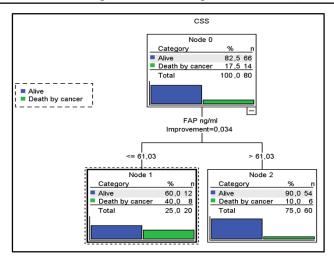


Figure S2. Classification and Regression Tree (CRT). A plasma FAP (sFAP) value of 61.03 ng/mL determined two nodes with significant differences in the percentage of alive patients (p = 0.034).

Table S1. Correlation between age, sex, tissue FAP expression and soluble FAP levels in CCRCC, PRCC, ChRCC and RO patients (Spearman Rho test).

		Primary tumour		Plasma
CCRCC		FAPc	FAPb	sFAP
Sex	r =	-0.130	-0.098	-0.142
	p =	0.22	0.41	0.192
Age	r =	0.051	0.103	0.021
	<i>p</i> =	0.64	0.38	0.84
PRCC				
Sex	r =	-0.231	-0.077	-0.160
	<i>p</i> =	0.34	0.75	0.49
Age	r =	0.019	-0.039	0.098
	p =	0.94	0.87	0.67
ChRCC				
Sex	r =	-0.354	-0.354	-0.577
sex	<i>p</i> =	0.44	0.44	0.13
A	r =	-0.577	-0.144	-0.381
Age	<i>p</i> =	0.17	0.76	0.352
RO (*)				
Sex	r =	-	-	-0.114
	p =	-	-	0.75
Λ αα	r =	-	-	0.127
Age	<i>p</i> =	-	-	0.71

^(*) FAP expression in RO tissues was negative in all cases. For this reason, the correlation test was performed only between age, sex and plasma sFAP levels. FAPc = FAP expression in the centre of the tumour. FAPb = FAP in tumour border.

Table S2. ROC Curves. Sensitivity and specificity of tissue and plasma FAP to predict cancer-specific survival (CSS) of CCRCC patients (n = 89). Sensitivity and specificity of tissue FAP to determine the potential of FAP staining in tumour tissues for the differential diagnosis between ChRCC (n = 8) and RO (n = 10). AUC: Area Under the Curve.

Cancers 2020, 12, x S3 of S3

	ROC curves for CSS			
	AUC	Sensitivity	Specificity	
FAP Centre (-/+)	0,649	53.3%	76.5%	
FAP Front (-/+)	0,658	66.7%	64.9%	
sFAP (≤ or > 61,03 ng/mL)	0,678	53.3%	82.4%	
FAP Centre / sFAP	0,645	33.3%	95.6%	
FAP Front / sFAP	0,664	41.7%	91.2%	
	ROC curves for differential diagnosis between ChRCC and RO			
	AUC	Sensitivity	Specificity	
FAP Centre (-/+)	0.714	42.9%	100%	
FAP Front (-/+)	0.714	42.9%	100%	



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