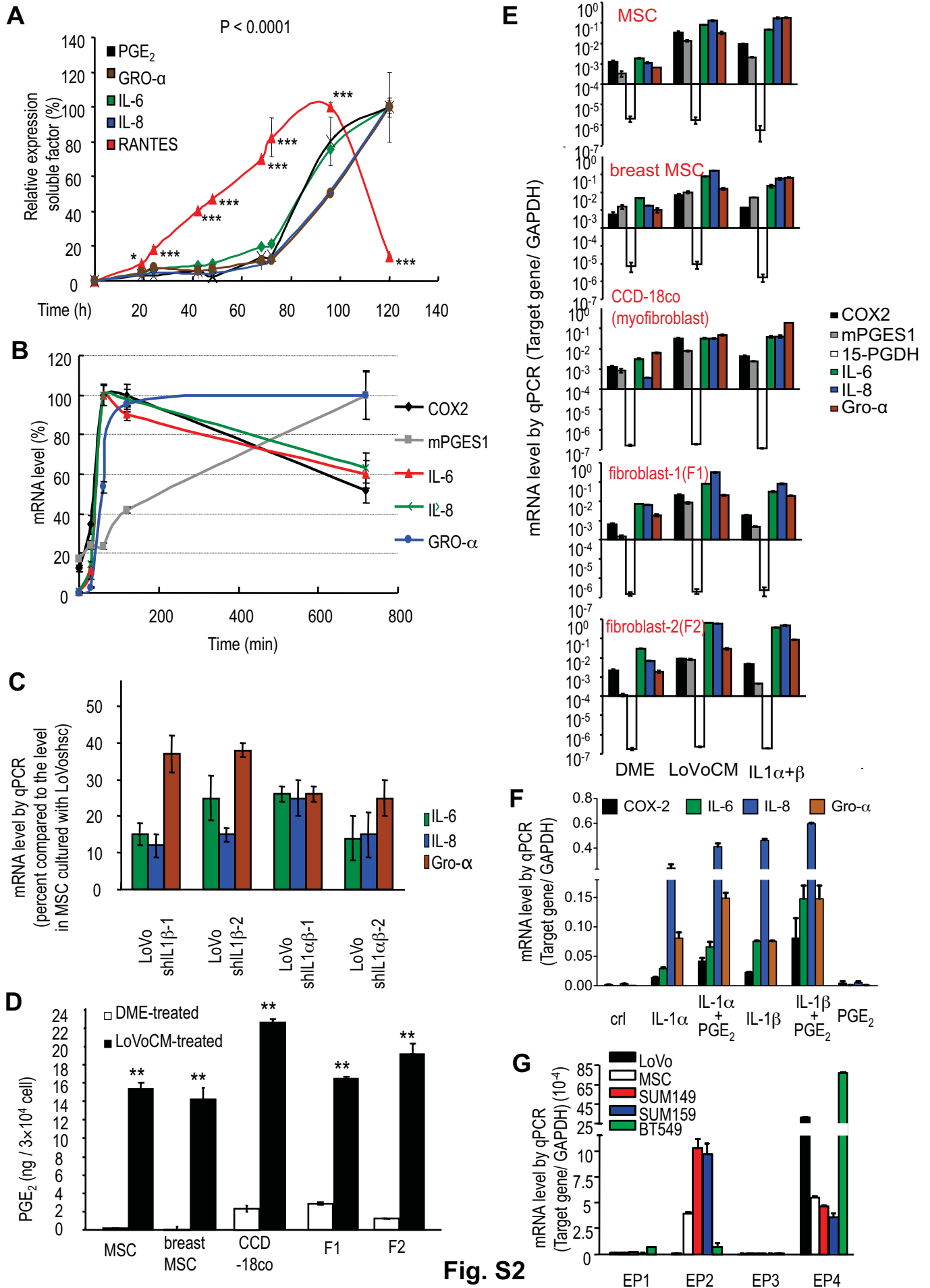
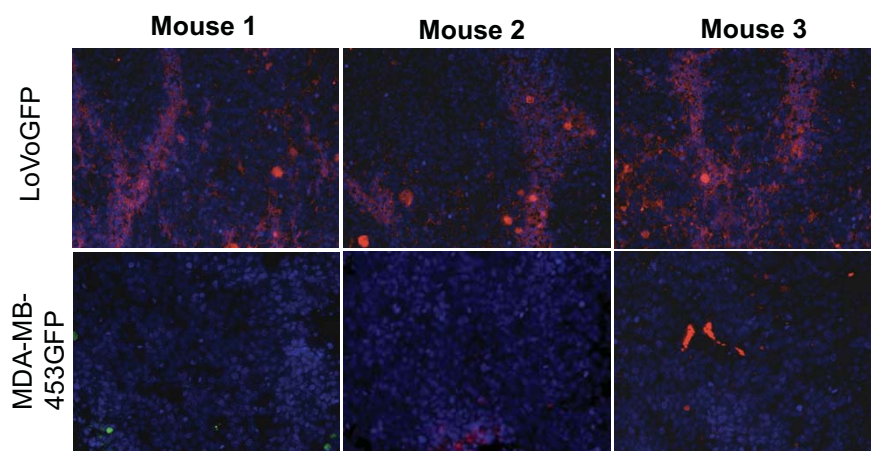
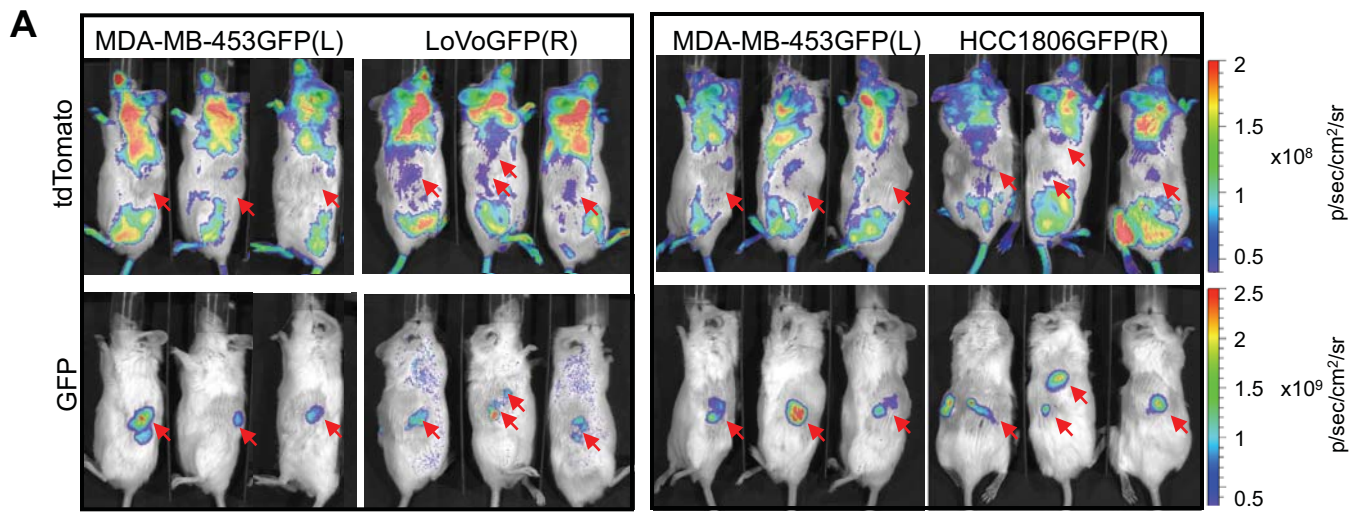


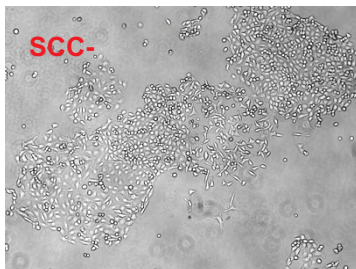
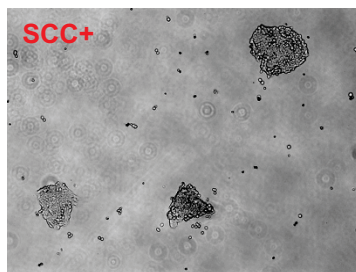
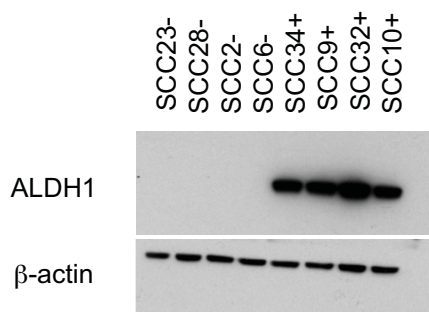
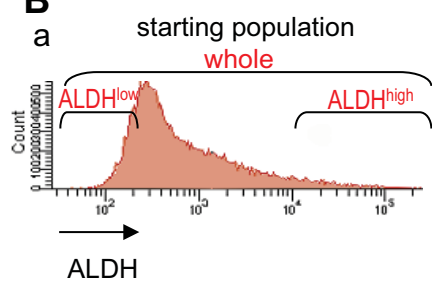
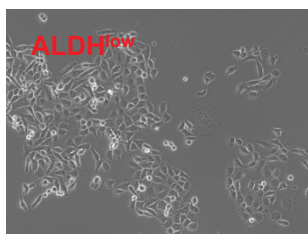
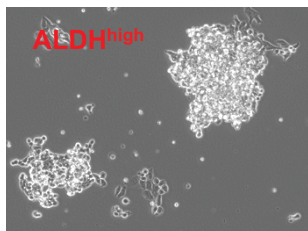
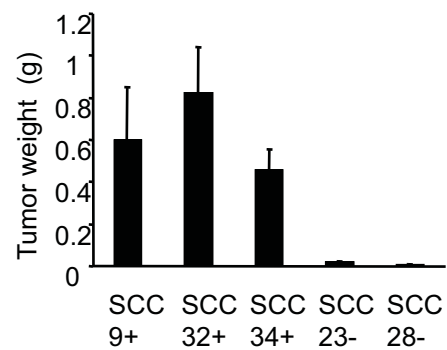
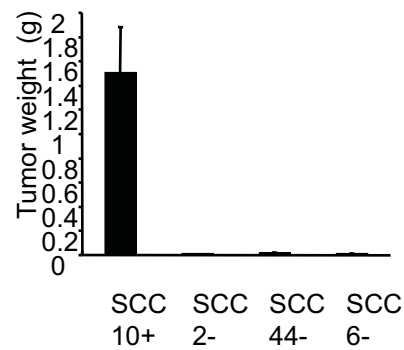
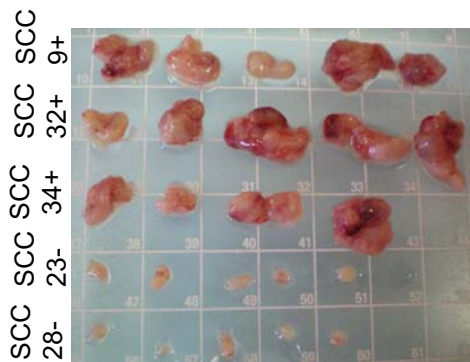
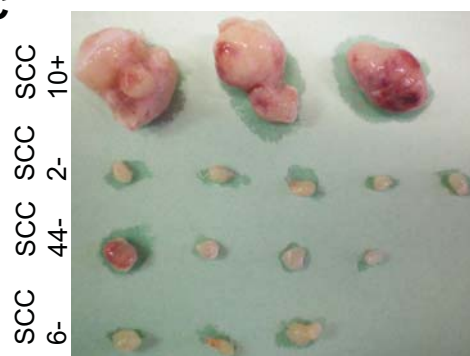
**Fig. S1**

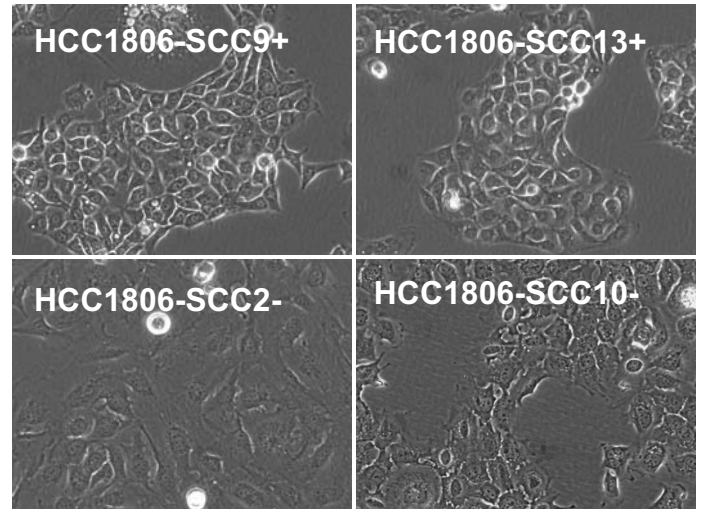
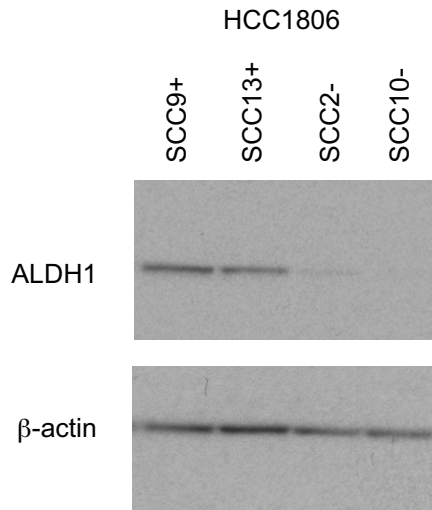
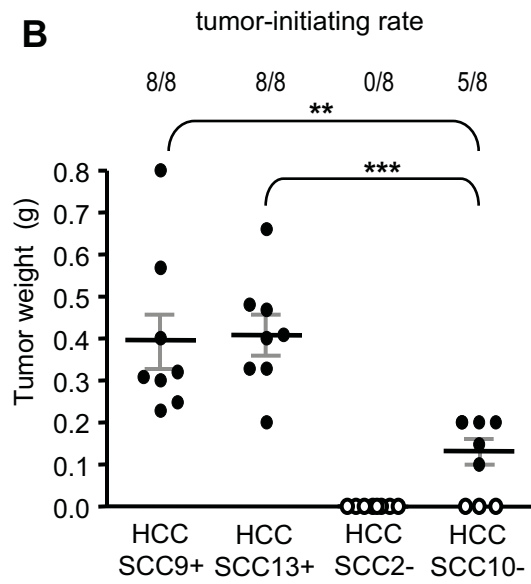
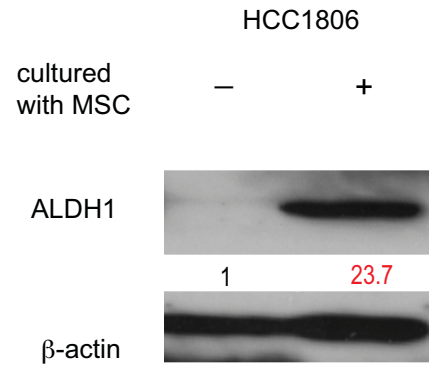


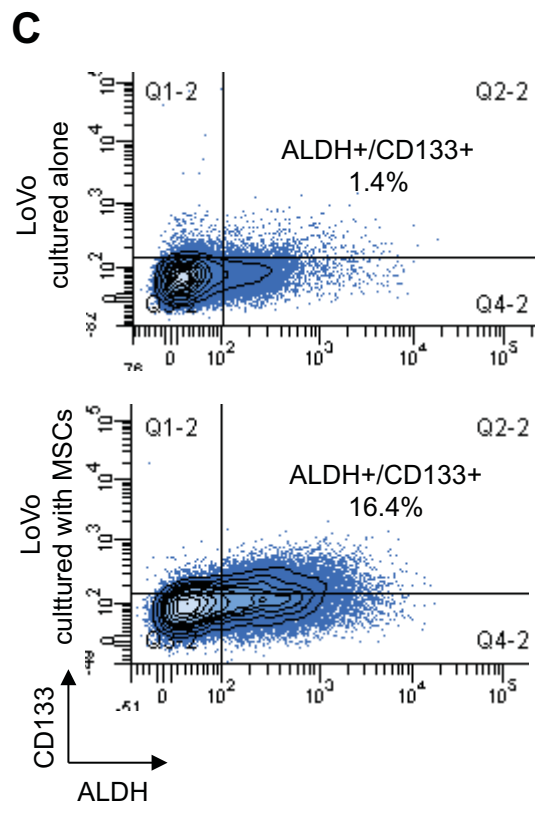
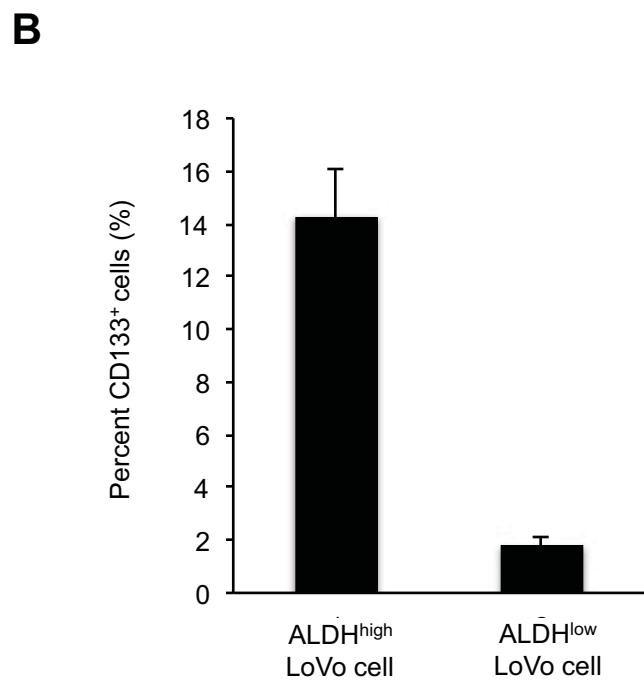
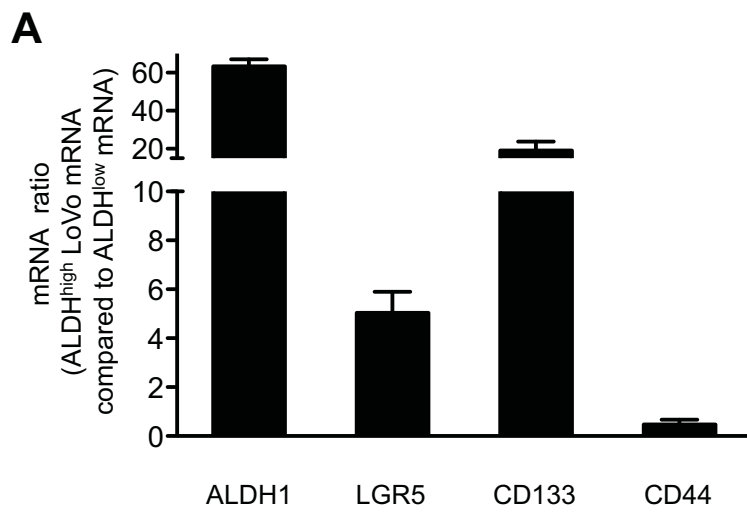
**Fig. S2**



**Fig. S3**

**A****B****b****C****Fig. S4**

**A****B****C****Fig. S5**



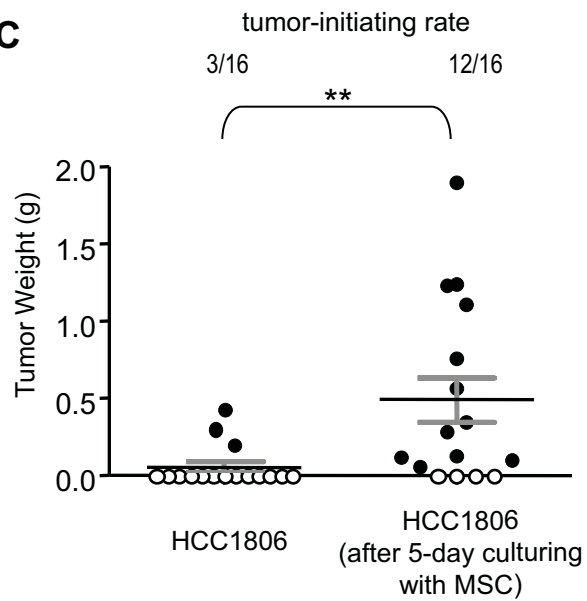
**Fig. S6**

**A**

Number of cells /injection	Type of injected cell	
	LoVo (after 5-day culturing alone)	LoVo (after 5-day culturing with MSC)
$5 \times 10^4$	1/6	5/6
$5 \times 10^3$	0/6	0/6

**B**

Group	Lower	Estimate	Upper
LoVo (after 5-day Culturing alone)	$2.1 \times 10^{-6}$	$3 \times 10^{-5}$	$4.3 \times 10^{-4}$
LoVo (after 5-day culturing with MSC)	$8.8 \times 10^{-4}$	$3.5 \times 10^{-4}$	$1.4 \times 10^{-4}$

**C****Fig. S7**

Pre-treatment *in vitro*

	control	PGE <sub>2</sub>	PGE <sub>2</sub> +cytokines
1×10 <sup>6</sup>	10/10	10/10	6/6
1×10 <sup>5</sup>	1/10	5/10	5/10
1×10 <sup>4</sup>	0/8	2/8	3/8

P=0.037
P=0.782

P=0.017

Number of cells  
/injection

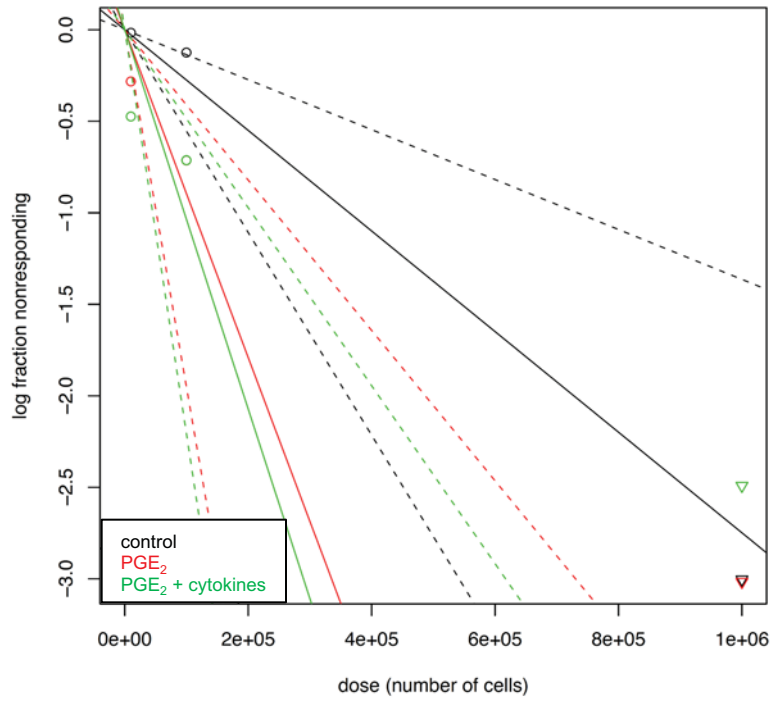
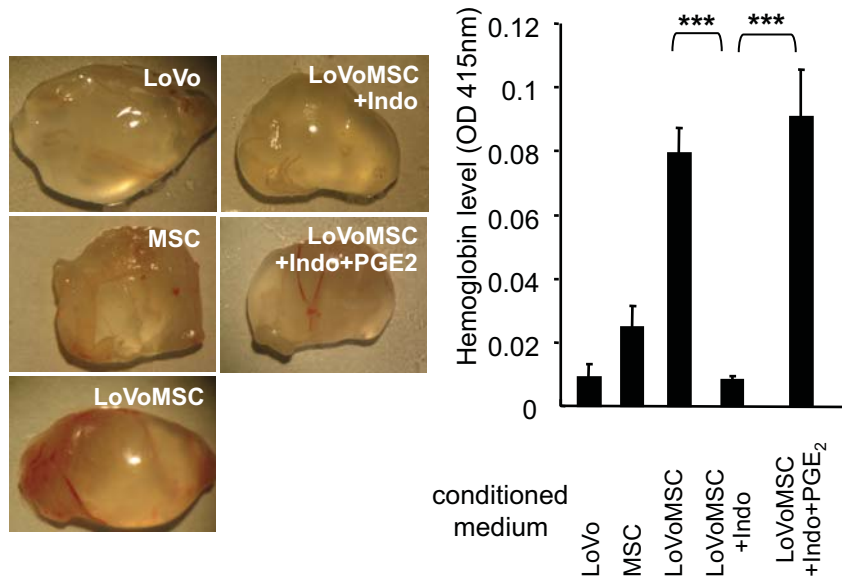
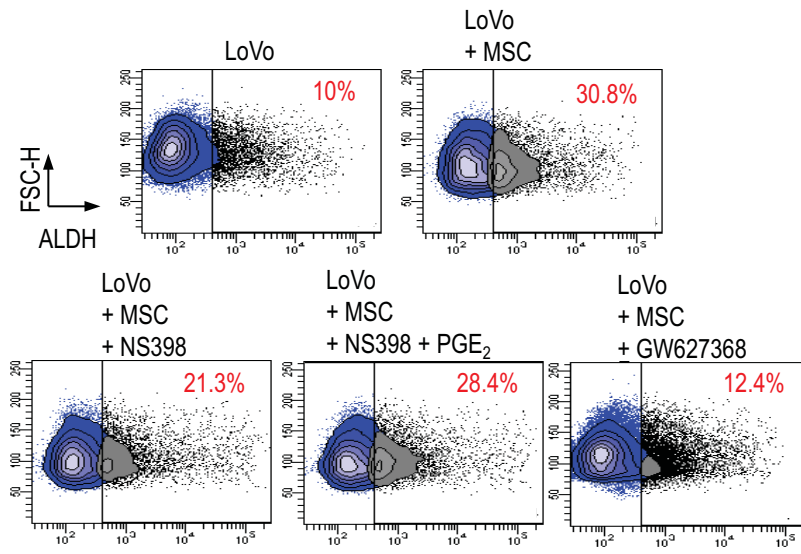


Fig. S8

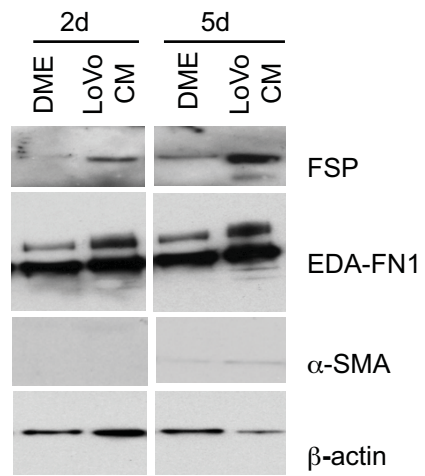




**Fig. S9**



**Fig. S10**



**Fig. S11**

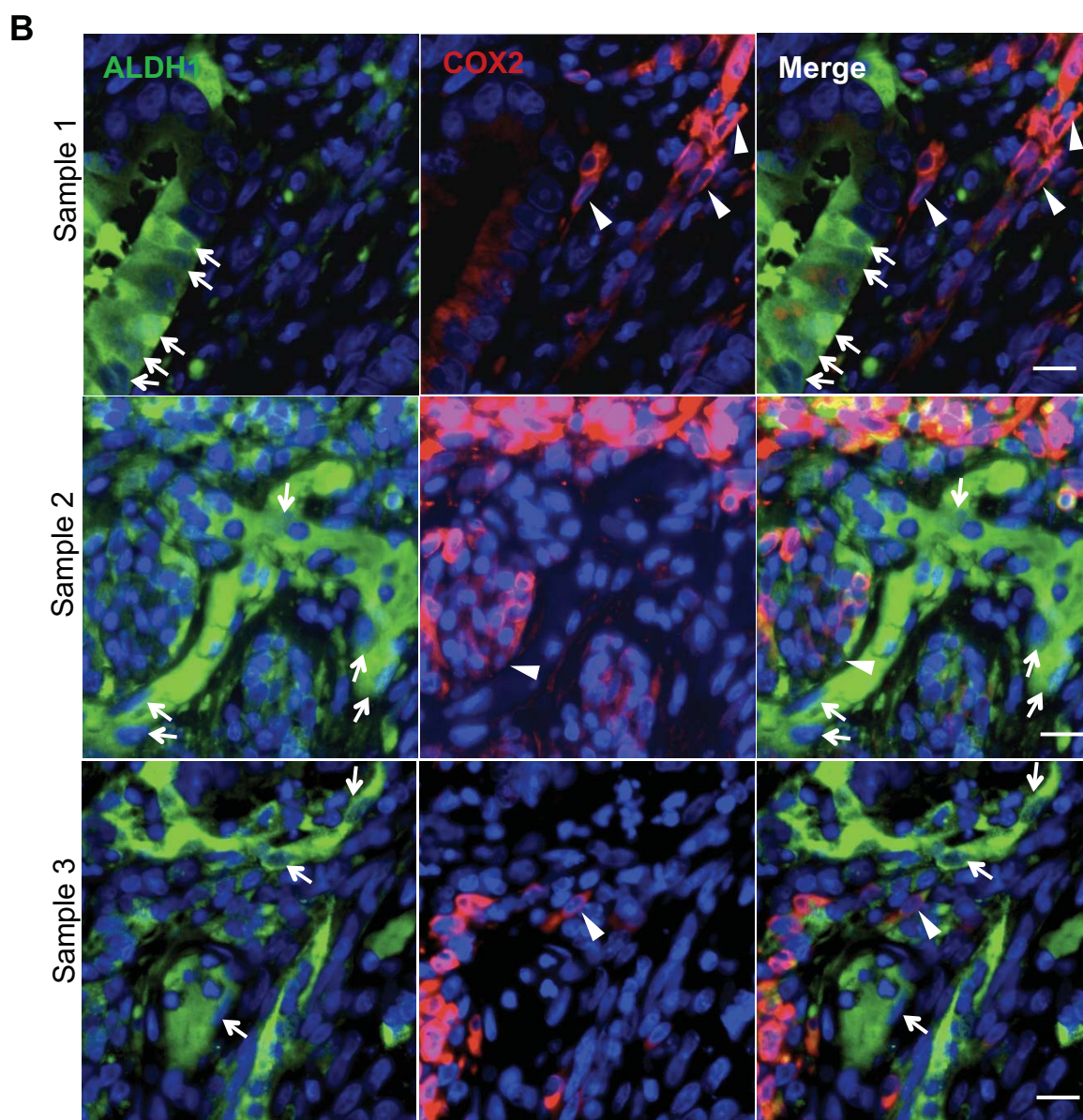
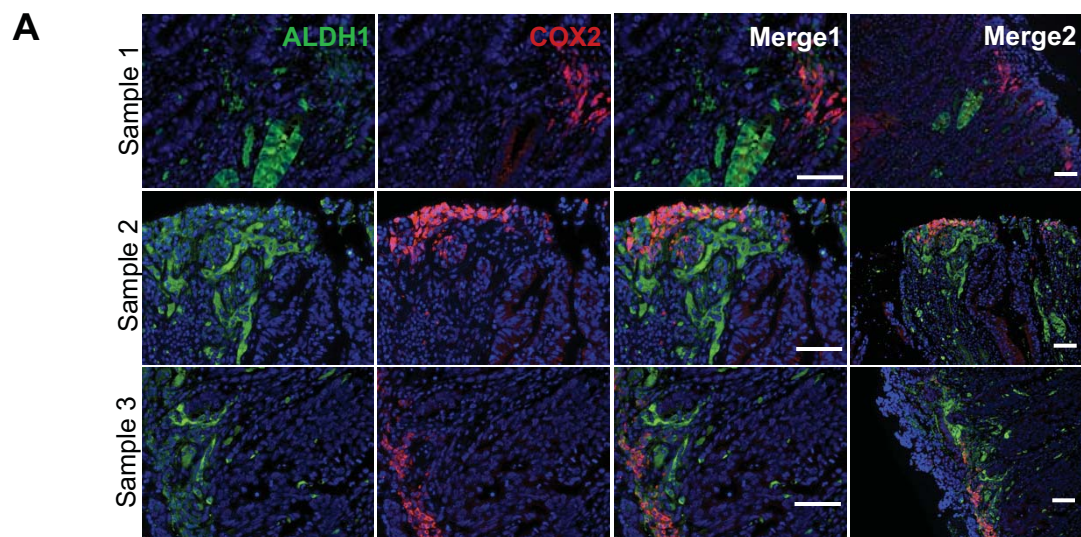


Fig. S12