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Article

Syndecan-1 promotes hepatocyte-like differentiation of hepatoma cells targeting Ets-1 and AP-1

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Supplementary information.

Contents

Table S1. qRT-PCR primer and oligo sequences.

Gene	Primer /oligo	Sequence (5'–3')	Amplicon length (bp)
MMP7	F	GTGGTCACCTACAGGATCGTA	492
	R	CTGAAGTTTCTATTTCTTTCTTGA	
ETS1	F	TTCACTAAAGAACAGCAAC	205
	R	TGTCCCCAACAAAGTCTG	
Syndecan-1 ED	F	GCTGACCTTCACACTCCCCA	124
	R	CAAAGGTGAAGTCCTGCTCCC	
Syndecan-1 CD	F	GAAGAAGGACGAAGGCAG	83
	R	CCTCCTGTTTGGTGGGC	
miR-lacZ	S	TGCTGAAATCGCTGATTTGTGTAGTCGTTTTGGC CACTGACTGACGACTACACATCAGCGATTT	-
	A	CCTGAAATCGCTGATGTGTAGTCGTCAGTCAGT GGCCAAAACGACTACACAAATCAGCGATTTC	
miR-362	S	TGCTGAATAGTGGACATCTGCACATGTTTTGGC CACTGACTGACATGTGCAGGTCCCACTATTG	-
	A	CCTGAATAGTGGGACCTGCACATGTCAGTCAGT GGCCAAAACATGTGCAGATGTCCCACTATTC	
miR-641	S	TGCTGTCTAGATGTTCCCATAAGATGGTTTTGG CCACTGACTGACCATCTTATGAACATCTAGA	-
	A	CCTGTCTAGATGTTCATAAGATGGTCAGTCAGT GGCCAAAACCATCTTATGGGAACATCTAGAC	

Abbreviations: F: forward primer, R: reverse primer, S: sense oligo, A: antisense oligo, bp: base pair; ED: ectodomain, CD: cytoplasmic domain

Table S2. Antibodies used.

Primary antibody	Host species, isotype	Manufacturer*	Cat. No.	Dilution	
				IF#	blot#
p38 MAPK	rabbit polyclonal IgG	Cell Signaling Technology	9212	-	1:500
phospho-p38 MAPK (Thr180/Tyr182) XP®	rabbit monoclonal IgG, clone D3F9	Cell Signaling Technology	4511	-	1:500
p44/42 MAPK (Erk1/2)	rabbit polyclonal IgG	Cell Signaling Technology	9102	-	1:500
phospho-p44/42 MAPK (Erk1/2) (Thr202/Tyr204) XP®	rabbit monoclonal IgG, clone D13.14.4E	Cell Signaling Technology	4370	-	1:500
Syndecan-1 (ectodomain)	mouse monoclonal IgG, clone B-B4	AbD Serotec	MCA681	1:100	-
Ets-1 (C-20)	rabbit polyclonal IgG	Santa Cruz Biotechnology	sc-350	1:100	1:500
Desmoplakin	rabbit polyclonal IgG	Abcam	ab14418	1:100	-
Albumin	rabbit polyclonal IgG	Dako	a0001	1:100	-
Heparan sulfate (HS4C3)	Phage display antibody containing a VSV-G tag	kind gift from TH van Kuppevelt	-	1:2	-
Heparan sulfate (AO4B08)	Phage display antibody containing a VSV-G tag	kind gift from TH van Kuppevelt	-	1:2	-
Vesicular stomatitis virus glycoprotein (VSV-G)	mouse monoclonal IgG, clone P5D4	Sigma-Aldrich Co.	SAB4200695	1:100	-
MMP-7	rabbit polyclonal IgG	Sigma-Aldrich Co.	AV46075	1:100	-
Met (c-28)	rabbit polyclonal IgG	Santa Cruz Biotechnology	sc-161	-	1:500
Secondary antibody	**Host species, isotype**	**Manufacturer***	**Cat. No.**	**Dilution**	
				IF#	**blot#**
Anti-rabbit Ig/HRP	Goat polyclonal	Dako Cytomation	P0448	-	1:2,000
Alexa Fluor® 568 anti-rabbit IgG (H+L)	Goat polyclonal	Invitrogen	A11011	1:200	-
Alexa Fluor® 568 anti-mouse IgG (H+L)	Goat polyclonal	Invitrogen	A11004	1:200	-
Alexa Fluor® 488 anti-rabbit IgG (H+L)	Goat polyclonal	Invitrogen	A11008	1:200	-

* Cell Signaling Technology, Danvers, MA, USA; AbD Serotec Kidlington, UK; Santa Cruz Biotechnology, Inc Dallas, TX, USA; Abcam, Cambridge, UK; Dako/DakoCytomation, Agilent Technologies, Inc., Santa Clara, CA, USA; Invitrogen by Life Technologies, Carlsbad, CA, USA; Sigma-Aldrich Co., St. Louis, MO, USA; kind gift from TH van Kuppevelt; Nijmegen, The Netherlands

#**IF**: immunofluorescent cytochemistry, **blot**: Western blot or dot blot

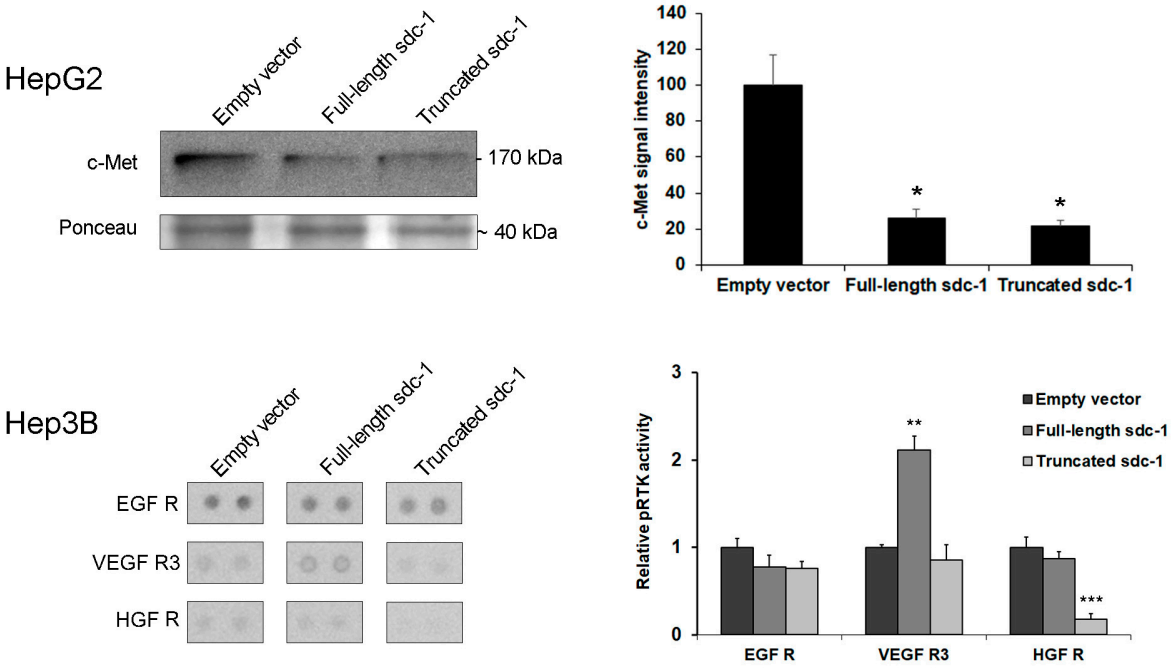

Figure S1. Expression of c-Met in HepG2 and Hep3B cells. Western blot of c-Met of HepG2 and pRTK array of Hep3B showing expression of EGFR, VEGFR3 and HGFR. Data points represent the mean ± SD, n = 2; * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$ versus empty vector transfectant.

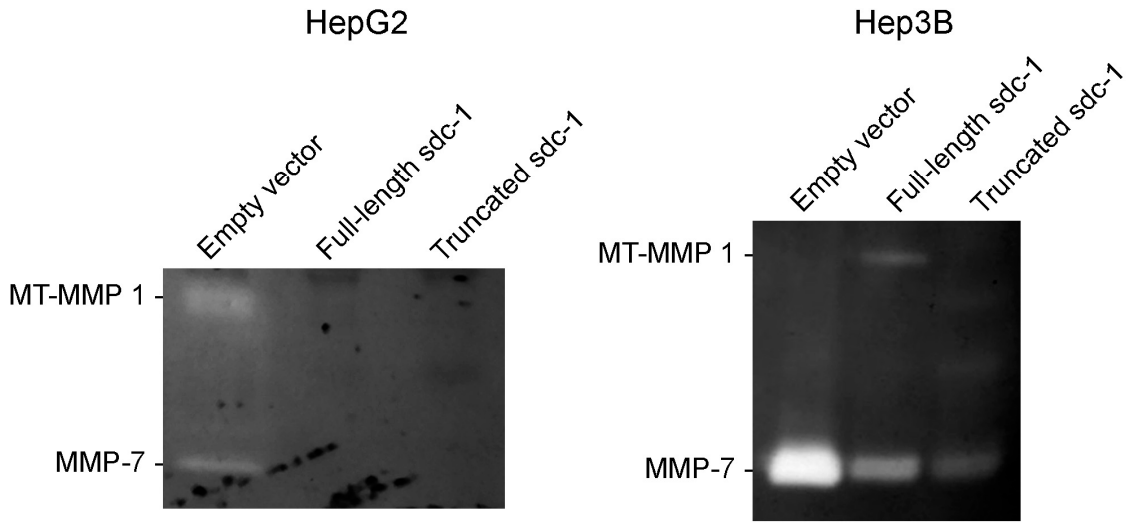

Figure S2. Zymography of HepG2 and Hep3B conditioned cell media.

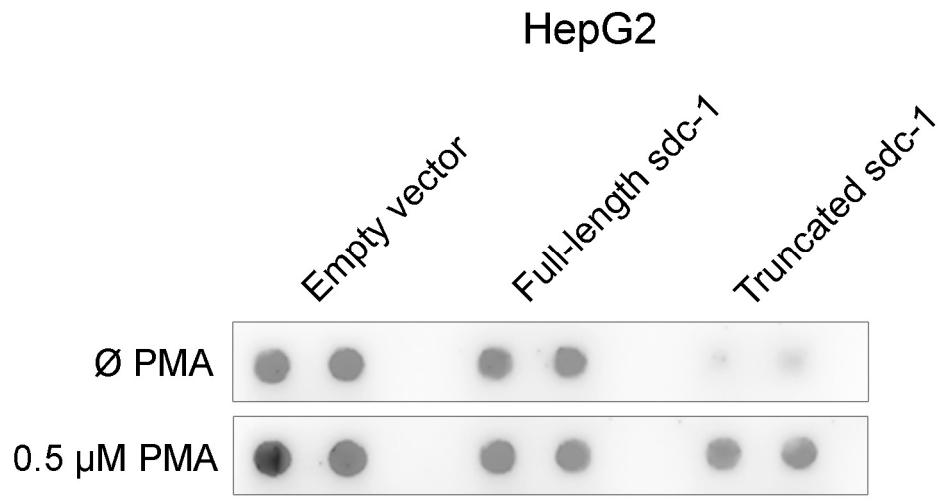

Figure S3. PMA treated HepG2 conditioned cell media.