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Appendix Tables

Appendix Table S1: Clinical information of patients providing lung cancer tissue samples and matching brain metastasis.

Patient	Age	Sex	Ethnicity
1	63	M	Caucasian
2	68	M	Caucasian
3	62	M	Caucasian
4	66	M	Caucasian
5	73	F	Caucasian
6	65	M	Caucasian

Appendix Table S2. Primers used for qRT-PCR.

Gene	Forward Primer (5'-3')	Reverse Primer (5'-3')
<i>β-actin</i>	GCAAGCAGGAGTATGACGAG	CAAATAAAGCCATGCCAATC
<i>CDH1</i>	CTCGACACCCGATTCAAAGT	CCAGGCGTAGACCAAGAAAT
<i>ESD</i>	TTTACTTCGGCCCGCTTCTT	TCCTGTCCAATTGCTGATTGC
<i>HPRT</i>	GATCAGTCAACGGGGGACATAAA	CTTGCGCTCATCTTAGGCTTTGT
<i>LAMP-2A</i>	ACTGTTTCAGTGTCTGGAGCAT	ATGGGCACAAGGAAGTTGTC
<i>LAMP-2B</i>	AGGGTTCAGCCTTTCAATGT	CTGAAAGACCAGCACCAACTA
<i>LAMP-2C</i>	TCAGTGTCTGGAGCATTTTCTAG	GGTCAGAGTCAGCAGAACATT
<i>LAMP1</i>	TGTGGACAAGTACAACGTGAG	CGTGTTGTCCTTCCTCTCATAG
<i>SMAD4</i>	TGCATTCCAGCCTCCCATT	GCACACCTTTGCCTATGTGC
<i>TGFβR2</i>	ATGACATCTCGCTGTAATGC	GGATGCCCTGGTGGTTGA
<i>VIM</i>	GATCACTCCCTCTGGTTGATAC	GTCATCGTGATGCTGAGAAGT

Appendix Table S3. Antibodies used for WB, IF, and IHC.

Target	Company	Catalog No.	Application	Dilution
β-actin	Santa Cruz	sc81178	WB	1:10000
E-Cadherin	Technology Santa Cruz	sc71009	WB	1:1000
HK2	Thermo Fisher Scientific	2H8L6	WB	1:1000
ID-1	BioCheck	BCH-1, clone 195-14	IHC	1:500
LAMP1	Santa Cruz	sc-20011	WB IF	1:2000 1:300
LAMP-2A	Abcam	ab240018	WB IHC IF	1:2000 1:500 1:300
LAMP-2B	Abcam	ab18529	WB	1:2000
N-Cadherin	Technology Santa Cruz	sc59987	WB	1:1000
p53	Santa Cruz	DO-1	WB	1:1000
Slug	Cell Signaling Technology	C19G7	WB	1:1000
Smad2	Cell Signaling Technology	D43B4	WB	1:1000
pSmad2	Cell Signaling Technology	138D4	WB	1:1000
Smad3	Cell Signaling Technology	C67H9	WB	1:2000
pSmad3	Cell Signaling Technology	C25A9	WB	1:2000
Smad4	Cell Signaling Technology	D3M6U	WB	1:2000
Snail	Cell Signaling Technology	C15D3	WB	1:1000
TGFβR1	Abcam	Ab235178	WB	1:2000
TGFβR2	Abcam	ab184948	WB	1:1000
Twist	Santa Cruz	sc-81417	WB	1:1000
Vimentin	Atlas Antibodies Ab Cell Signaling Technology	HPA001762 D21H3	IHC WB	1:1000 1:2000
Vinculin	Abcam	ab129002	WB	1:2000
Zeb1	Cell Signaling Technology	D80D3	WB	1:1000
LDHA	Cell Signaling Technology	3582	WB	1:1000
TOMM40	Santa Cruz	sc-11414	WB	1:1000
CTSD	Santa Cruz	sc-6486	WB	1:1000
HSC70	Proteintech	10654	WB	1:1000
LC3B	Sigma-Aldrich	L7543	WB	1:1000

Rabbit IgG (Alexa Fluor Plus 647)	Thermo Fisher Scientific	A32733	IF	1:500
Mouse IgG (Alexa Fluor Plus 488)	Thermo Fisher Scientific	A32723	IF	1:500
Rabbit IgG (Alexa Fluor 488)	Thermo Fisher Scientific	A32790	IF	1:500
Rabbit IgG (Alexa Fluor 594)	Invitrogen	A21207	IF	1:500
Rabbit IgG (HRP-conjugated)	Vector Laboratories	MP-7401	IHC	1:500

Appendix Table S4. Statistical analysis of western blot densitometry from figure 7.

Figure Panel	Cell line	Protein	Comparison	P-value
B	ES2	TGFβRII	CTRL-Tranilast	0.0037
			CTRL-CMA	0.0070
		Smad2	CTRL-Tranilast	0.0030
			CTRL-CMA	0.0192
		Smad3	CTRL-Tranilast	0.0008
			CTRL-CMA	0.0164
		Smad4	CTRL-Tranilast	0.0910
			CTRL-CMA	0.0037
		mP53	CTRL-Tranilast	0.0039
			CTRL-CMA	0.0051
C	FUOV1	TGFβRII	CTRL-CQ	0.0002
			CTRL-Tranilast	<0.0001
			Tranilast-Tranilast+CQ	0.0020
			CTRL-CMA	0.0031
			CMA-CMA+CQ	0.0187
	ES2		CTRL-CQ	0.0016
			CTRL-Tranilast	0.0119
			Tranilast-Tranilast+CQ	0.0298
			CTRL-CMA	0.0010
			CMA-CMA+CQ	0.0317
E	FUOV1	Snail	CTRL-CMA	0.0001
		Zeb1	CTRL-CMA	0.0006
		Slug	CTRL-CMA	0.0001
	ES2	Twist	CTRL-CMA	<0.0001
		Zeb1	CTRL-CMA	<0.0001
		Slug	CTRL-CMA	0.0633
		F	OVPA8	Snail
TGFβL-TGFβL+CMA	0.0107			
CTRL-CMA	0.0212			
G	OVPA8	LAMP-2A	NT-siLAMP-2A	0.0008
		TGFβRII	NT-siLAMP-2A	0.0019
H	HT1080	TGFβRII	WT-KO	0.0004
		TGFβRI	WT-KO	0.1982
		pSmad3	WT-KO	0.1715
		Smad2	WT-KO	0.0235
		Smad3	WT-KO	0.2684
		Smad4	WT-KO	0.0112

	A549	TGFβRII	WT-KO	0.4935
		TGFβRI	WT-KO	0.1284
		psmad2	WT-KO	0.3013
		pSmad3	WT-KO	0.1059
		Smad2	WT-KO	0.2913
		Smad3	WT-KO	0.0633
		Smad4	WT-KO	0.1187
I	HT1080 (tumor)	TGFβRII	WT-KO	0.0397
		TGFβRI	WT-KO	0.0162
		psmad2	WT-KO	0.1599
		Smad2	WT-KO	0.3088
		pSmad3	WT-KO	0.1377
		Smad3	WT-KO	0.0033
		Smad4	WT-KO	0.0075
J	HT1080	TGFβRII	WT-KO	<0.0001
			KO-KO RE	0.0027