

List of Antibodies Used in this Manuscript

<b>Antibody</b>	<b>Source</b>	<b>Catalogue number</b>	<b>ratio</b>
<b>HA-tag</b>	Immunoway	YM3003	1:5000
<b>MT1-MMP (MMP14)</b>	Abcam	ab51074	1:5000 for WB 1:200 for IHC
<b>RFP</b>	SCIGEN		1:500 for IHC
<b>RFP</b>	Abcam	ab123754	1:200
<b>GFP</b>	ThermoFisher	A10262	1:1000
<b>Osterix</b>	Abcam	ab22552	1:200
<b>p-creb(S133)</b>	Abcam	ab43096	1:200
<b>t-creb</b>	Abcam	ab32515	1:1000
<b>p-erk</b>	Cell Signaling	CS4370	1:2000
<b>t-erk</b>	Cell Signaling	CS	1:1000
<b>PTH1R</b>	ThermoFisher	MA5-15676	1:1000
<b>PTH1R</b>	ThermoFisher	PA3-205	1:5000
<b>His-tag</b>	Immunoway	YM3004	1:1000
<b><math>\beta</math>-actin</b>	Sigma		

List of ISH probes used in this Manuscript

Gene	Plasmid name	Enzyme	Description
Col1a1	pSp65-1	HindIII/Sp6(AS)	This plasmid contains a 0.8 kb gene fragment of the mouse <i>Colla1</i> gene
Col2a1	pNJ61	HindIII/T7(S) EcoRI/T3(AS)	This plasmid contains a 0.5kb cDNA fragment from exon 1 to 5 of mouse <i>Col2a1</i> gene
Col10a1	pRK26	EcoRI/Sp6(AS) HindIII/T7(S)	This plasmid contains a 0.35kb cDNA fragment of exon 3 and 3' untranslated region from mouse <i>Col10a1</i> gene
Mmp14	pMT1E4	EcoRI/Sp6(AS) HindIII/T7(S)	This plasmid contains a 300bps fragment from Exon 4 of <i>Mmp14</i> gene
Mmp13	M collase	HindIII/T7(AS)	731 bps derived from mouse <i>Mmp13</i> AvrII-HindIII fragment
Sox9	pSox9.5a	BamHI/T3(S) HindIII/T7(AS)	This plasmid contains a 0.5kb DNA from 3' to the mouse <i>Sox9</i> gene.
Opn	mOP	EcoRI/SP6(AS)	This probe was derived from mouse Osteopontin mRNA fragment(157-1144)