

List of Antibodies Used in this Manuscript

Antibody	Source	Catalogue number	ratio
HA-tag	Immunoway	YM3003	1:5000
MT1-MMP (MMP14)	Abcam	ab51074	1:5000 for WB 1:200 for IHC
RFP	SCIGEN		1:500 for IHC
RFP	Abcam	ab123754	1:200
GFP	ThermoFisher	A10262	1:1000
Osterix	Abcam	ab22552	1:200
p-creb(S133)	Abcam	ab43096	1:200
t-creb	Abcam	ab32515	1:1000
p-erk	Cell Signaling	CS4370	1:2000
t-erk	Cell Signaling	CS	1:1000
PTH1R	ThermoFisher	MA5-15676	1:1000
PTH1R	ThermoFisher	PA3-205	1:5000
His-tag	Immunoway	YM3004	1:1000
β-actin	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>Col1a1</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)

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Directory: C:\Users\nelso\Downloads
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Keywords:
Comments:
Creation Date: 4/6/2019 5:55:00 pm
Change Number: 2
Last Saved On: 4/6/2019 6:48:00 pm
Last Saved By: mistyzs
Total Editing Time: 51 Minutes
Last Printed On: 3/5/2022 2:37:00 pm
As of Last Complete Printing
Number of Pages: 2
Number of Words: 209 (approx.)
Number of Characters: 1,197 (approx.)