

Supplementary Table 1. List of antibodies for flow cytometric analysis.

Names	Host/Isotype	Clones	Conjugate	Supplier
anti-CD14	mouse IgG ₁ , κ	61D3	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD24	mouse IgG ₁ , κ	SN3	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD34	mouse IgG ₁ , κ	4H11	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD45	mouse IgG ₁ , κ	2D1	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD73	mouse IgG ₁ , κ	AD2	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD90	mouse IgG ₁ , κ	5E10	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD105	mouse IgG ₁ , κ	SN6	R-PE	Thermo Fisher Scientific (Waltham, WA)
anti-CD146	mouse IgG ₁ , κ	P1H12	R-PE	Thermo Fisher Scientific (Waltham, WA)

R-PE: R-phycoerythrin

Supplementary Table 2. List of TaqMan probes used for RT-qPCR

Name	Gene assay ID Number
<i>BGLAP</i>	Hs01587814_g1
<i>COL10A1</i>	Hs00166657_m1
<i>DSPP</i>	Hs00171962_m1
<i>LPL</i>	Hs00173425_m1
<i>PPARG</i>	Hs0115513_m1
<i>RUNX2</i>	Hs00231692_m1
<i>SOX9</i>	Hs01001343_g1
<i>TBR1</i>	Hs00232429_m1
<i>TBR2</i>	Hs00234253_m1
<i>TBR3</i>	Hs00234257_m1
Ribosomal RNA, 18S	Hs99999901_s1

BGLAP: bone gamma-carboxyglutamate protein

COL10A1: collagen type X alpha 1 chain

DSPP: dentin sialophosphoprotein

LPL: lipoprotein lipase

PPARG: peroxisome proliferator-activated receptor gamma

RUNX2: runt related transcription factor 2

TBR1: transforming growth factor receptor type I

TBR2: transforming growth factor receptor type II

TBR3: transforming growth factor receptor type III

Supplementary Table 3. List of specific antibodies for western blot and immunofluorescent analyses.

Name	Host/Isotype	Supplier
anti-ACTB	mouse IgG ₁	Merck (Kenilworth, NJ)
anti-AKT	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-AKT, phosphorylated (p-AKT)	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-BGLAP	rabbit IgG	LifeSapn BioScience (Seattle, WA)
anti-DSPP	mouse IgG _{2b}	Santa Cruz Biotechnology (Dallas, TX)
anti-ERK1/2	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-ERK1/2, phosphorylated (p-ERK1/2)	mouse IgG ₁	Cell Signaling Technology (Danvers, MA)
anti-mitochondria, human	mouse IgG ₁	Merck (Kenilworth, NJ)
anti-mTOR	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-mTOR, phosphorylated (p-mTOR)	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-p38	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-p38, phosphorylated (p-p38)	rabbit IgG	Cell Signaling Technology (Danvers, MA)
anti-RUNX2	rabbit IgG	Abcam (Cambridge, England)

ACTB: actin, β

BGLAP: bone gamma-carboxyglutamate acid protein

DSPP: dentin sialophosphoprotein

ERK: extracellular signal-regulated kinases

mTOR: mammalian target of rapamycin

RUNX2: runt-related transcription factor 2