

Supplementary Figure 1

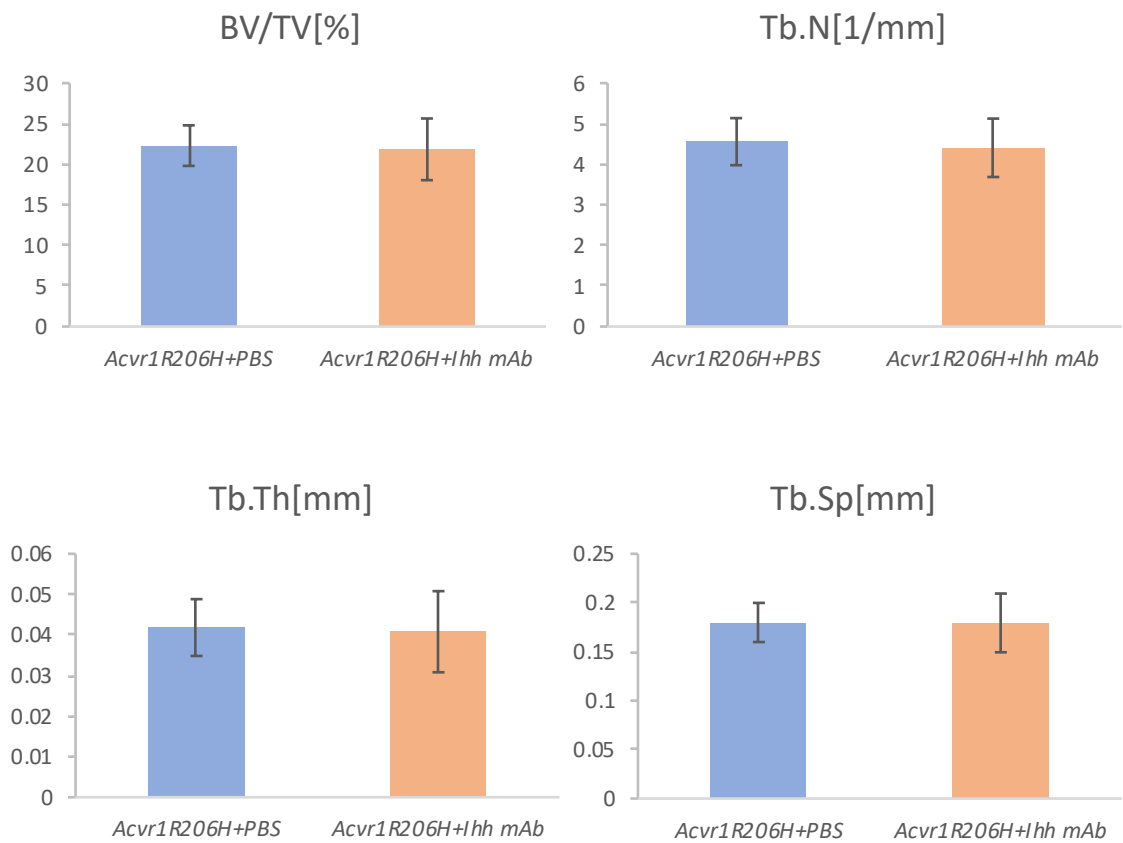


Figure S1. Bone mass is not affected by Ihh mAb treatment. Bone volume fraction (BV/TV), trabecular number (Tb.N), trabecular thickness (Tb.Th), trabecular separation (Tb.Sp) were measured from the indicated mice with PBS or Ihh mAb treatment.

Supplementary Figure 2

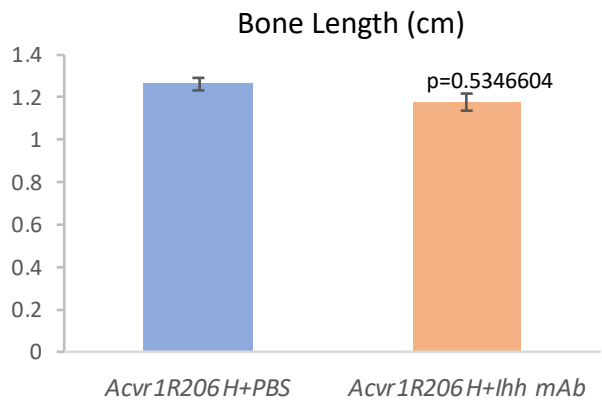


Figure S2. Bone length is slightly decreased with Ihh mAb treatment. Bone length of tibia was measured from indicated mice with PBS or Ihh mAB treatment. P=0.5346604, one-way ANOVA followed by Tukey’s multiple comparisons tests.

Supplementary Figure 3

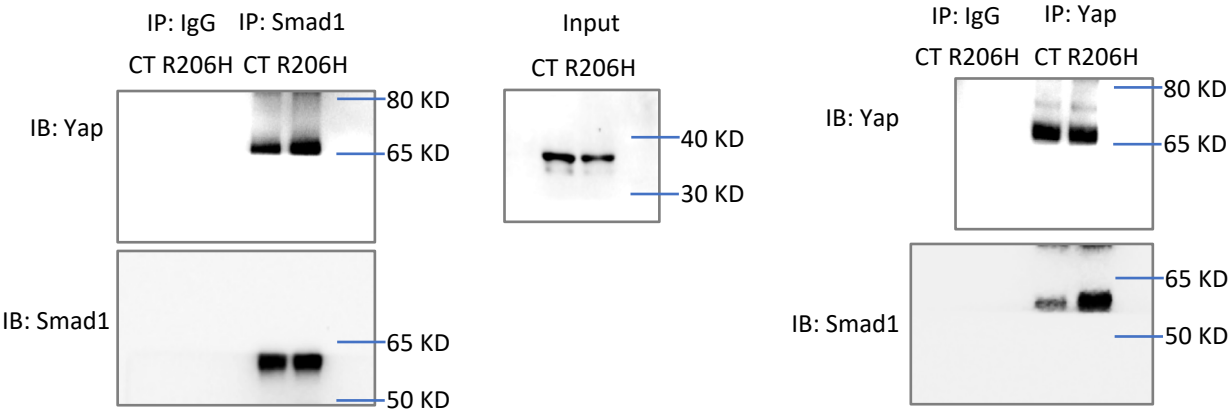


Figure S3. Western Blot images of Figure 5D.

Supplementary Table 1

Table S1: qRT-PCR primer sequences and ChIP-qPCR primer sequences.

qRT-PCR primers	Forward 5'-3'	Reverse 5'-3'
Gapdh	GCCTTCCGTGTTCTACCC	TGCCTGCTTCACCACTTC
Hhip	GGGAAAAACAGGTCATCAGC	ATCCACCAACCAAAGGGC
Ptch1	CTCTGGAGCAGATTTCCAAGG	TGCCGCAGTTCTTTTGAATG
Gli1	GAAAGTCCTATTACGCCTTGA	CAACCTTCTTGCTCACACATGTAAG
Osx	CCCACTGGCTCCTCGGTTCTCTCC	GCTGAAAGGTCAGCGTATGGCTTC
Runx2	AACCCACGGCCCTCCCTGAACTCT	ACTGGCGGGGTGTAGGTAAAGGTG
Ctgf	CTGCCTACCGACTGGAAGAC	CATTGGTAACTCGGGTGGAG
Cyr61	GCTCAGTCAGAAGGCAGACC	GTTCTTGGGGACACAGAGGA
Ihh	ACGTGCATTGCTCTGTCAAGT	CTGGAAAGCTCTCAGCCGGTT
Shh	GATGACTCAGAGGTGCAAAGACAA	TGGTTCATCACAGAGATGGCC
Sox9	AGTACCCGCATCTGCACAAC	ACGAAGGGTCTCTTCTCGCT
Col2a1	ACTGGTAAGTGGGGCAAGAC	CCACACCAAATTCTGTTC
Aggrecan	GTGGTGGAGCATGCTAGAACCC	ATTCGAGGCTCTTCCCAG
ChIP-qPCR primers	Forward 5'-3'	Reverse 5'-3'
Primer1	GGCCGGGTAGCCCGGGA	CCCCAAGAGCCACCCAGA
Primer2	ACTCCATGCGGGGGCGCCAT	GCCGGGCAGCTCAGAGTCGA
Primer3	ACTCTGAGCTGCCCGGCTCG	CGCGGGTCCCTTCAGTC
Primer4	GTTAGCACCCCGGCCCGG	GCGGGTCCCGAGCCCGGAT
Primer5	GCAGACCGCACCTATCCAT	GAGGAGCGCGCGGGACA
Primer6	AGCCGCGCGTCCACCCGC	AGATTTGCGCCTGGTG
Primer7	CCTGGACAGGAGATGCCA	TGCTTCTCCGCAGGGGACA
Primer8	AACCCGAAAGCTGGAGGTCA	GTAAGGGCAGTATAGGGT
Primer9	AGAACTAGGGGATGCGGGT	CAGGCTGTTATTCTGTAT
Primer10	AAGTGGGGACATCCACAGA	TTAGGTGGACGTCTGCCCCG
Primer11	ACTGCCTGGGAATCACT	TTCGCTTACTCCCAACA