

CKIP-1^{-/-} KO Mouse

Gene/Protein Targets:	Casein kinase 2-interacting protein-1
Relevance:	In vivo study of ckip-1 knockout in bone related disease, such as osteoporosis, bone fracture and bone erosion in arthritis diseases; potential in vivo application in CHD research.
Model Type:	General knockout models
Genetic Background:	C57BL/6
Zygoty:	Homozygous
Phenotype Keywords:	Low bone mineral density
Disease Keywords:	Osteoporosis, bone metabolism & erosion diseases, cardiac hypertrophy
References:	<ol style="list-style-type: none">1. Lu K, Yin X, Weng T, Xi S, Li L, Xing G, Cheng X, Yang X, Zhang L, He F. Targeting WW domains linker of HECT-type ubiquitin ligase Smurf1 for activation by CKIP-1. <i>Nat Cell Biol.</i> 2008 Aug;10(8):994-1002. doi: 10.1038/ncb1760. Epub 2008 Jul 20.2. Zhang G, et al. A delivery system targeting bone formation surfaces to facilitate RNAi-based anabolic therapy. <i>Nat Med.</i> 2012 Jan 29;18(2):307-14.3. Ling S, et al. CKIP-1 inhibits cardiac hypertrophy by regulating class II histone deacetylase phosphorylation through recruiting PP2A. <i>Circulation.</i> 2012 Dec 18;126(25):3028-40.