

Center for Skeletal Research
MGH Endocrine Unit

Bone Cells Core

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Primary Osteoblasts

Primary osteoblasts can be used to investigate the mechanisms of bone formation, to probe the cellular and molecular basis of bone disease, and to screen for potential therapeutic agents that affect osteoblasts differentiation and bone formation

Description: Primary osteoblasts will be derived from long bones (tibia and femur) of 6-8 weeks old C57/Bl6 using modified sequential collagenase and EDTA digestions (protocol). The Core will provide one or two confluent T25 at first passage. Cells will be tested for alkaline phosphatase expression. For best reproducibility and results, primary osteoblasts should be used at passage two or three.