



Figure 5: Static forces increase inflammatory markers in periosteum. Mean protein concentration of IL-1 α , TNF- β , CCL2, CCL5 in soft tissue (including periosteum) covering the buccal cortical plate was evaluated at different time points in periosteum by ELISA (A). Data expressed as the mean \pm SD of concentration in picograms per 100 mg of tissue. Each number represents the average of 5 samples. * Static group significantly different from sham group at the same time point, $p < 0.05$. TRAP staining of histological sections taken from buccal cortical plate of second molars in static and static plus anti-inflammatory medication after 7 days of application of static forces (B). TRAP staining of the first molar area after application of 100cN force in sagittal direction for 14 days (black arrow) (C).