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Title: Induction of S100A4 in periodontal ligament cells enhances osteoclast formation

Author: Su-jung Mah Jiyeon Lee Haemin Kim Yoon-Goo
Kang Seung-Hak Baek Hong-Hee Kim Won Hee Lim



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Highlights

S100A4 was induced in human periodontal ligament cells by inflammatory stimuli LPS.

NF κ b signaling pathway mediated the S100A4 up-regulation in hPDL cells.

LPS-treated hPDL cells enhanced osteoclastogenesis from primary progenitor cells.

Recombinant S100A4 directly stimulated osteoclastogenesis.

Our data suggest that S100A4 may contribute to bone destruction in periodontitis.

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