

Bone Resorption Assay Plate 使用論文

- 1) Kim JL, Osteogenic activity of yellow flag iris (*Iris pseudacorus*) extract modulating differentiation of osteoblasts and osteoclasts. *Am J Chin Med*. 2012, 40(6):1289-305. PMID: 23227798
- 2) Fabre C, Dual inhibition of canonical and noncanonical NF- κ B pathways demonstrates significant antitumor activities in multiple myeloma. *Clin Cancer Res*. 2012, 18(17):4669-81. PMID: 22806876
- 3) Wu K, Dextromethorphan inhibits osteoclast differentiation by suppressing RANKL-induced nuclear factor- κ B activation. *Osteoporos Int*. 2013, 24(8):2201-14. PMID: 23400250
- 4) Kuo CH, Lung tumor associated dendritic cell-derived resistin promoted cancer progression by increasing Wolf-Hirschhorn syndrome candidate 1/Twist pathway. *Carcinogenesis*. 2013, 34(11):2600-9. PMID: 23955539
- 5) Kanzaki H, The keap1/nrf2 protein axis plays a role in osteoclast differentiation by regulating intracellular reactive oxygen species signaling. *J Biol Chem*. 2013, 288(32):23009-20. PMID: 23801334
- 6) Moon SJ, Temporal differential effects of proinflammatory cytokines on osteoclastogenesis. *Int J Mol Med*. 2013, 31(4):769-77. PMID: 23403591
- 7) Harada K, Polyphosphate-Mediated Inhibition of Tartrate-Resistant Acid Phosphatase and Suppression of Bone Resorption of Osteoclasts. *PLoS One*. 2013, 8(11): e78612. PMID: 24223830
- 8) Hokugo A, Equilibrium-dependent bisphosphonate interaction with crystalline bone mineral explains anti-resorptive pharmacokinetics and prevalence of osteonecrosis of the jaw in rats. *Bone*. 2013, 53:59-68. PMID: 23219943
- 9) Eda H, A novel Bruton's tyrosine kinase inhibitor CC-292 in combination with the proteasome inhibitor carfilzomib impacts the bone microenvironment in a multiple myeloma model with resultant antimyeloma activity. *Leukemia*. 2014, 28(9):1892-

901. PMID: 24518207

- 10) Orosa B, Lysophosphatidic acid receptor inhibition as a new multipronged treatment for rheumatoid arthritis. *Ann Rheum Dis*. 2014, 73(1):298-305. PMID: 23486415
- 11) Kanzaki H, Nuclear Nrf2 induction by protein transduction attenuates osteoclastogenesis. *Free Radic Biol Med*. 2014, 77:239-48. PMID: 25224039
- 12) Sharma R, Caspase-2 maintains bone homeostasis by inducing apoptosis of oxidatively-damaged osteoclasts. *PLoS One*. 2014, 9(4):e93696. PMID: 24691516
- 13) Hsieh CJ, Wedelolactone inhibits breast cancer-induced osteoclastogenesis by decreasing Akt/mTOR signaling. *Int J Oncol*, 2015, 46(2):555-62. PMID: 25421824
- 14) Kloos B, *Pasteurella multocida* toxin- induced osteoclastogenesis requires mTOR activation. *Cell Commun Signal*. 2015, 13:40. PMID: 26369790
- 15) Mishima K, Lansoprazole Upregulates Polyubiquitination of the TNF Receptor-Associated Factor 6 and Facilitates Runx2-mediated Osteoblastogenesis. *EBioMedicine*. 2015, 2(12):2046-61. PMID: 26844285
- 16) Kim KW, Th17 cytokines regulate osteoclastogenesis in rheumatoid arthritis. *Am J Pathol*. 2015, 185(11):3011-24. PMID: 26362732
- 17) Gohda J, HIV-1 replicates in human osteoclasts and enhances their differentiation in vitro. *Retrovirology*. 2015, 12, 12. PMID: 25809599
- 18) Tsai YM, Syringetin suppresses osteoclastogenesis mediated by osteoblasts in human lung adenocarcinoma. *Oncol Rep*, 2015, 34: 617-626. PMID: 26044862
- 19) Ishikawa S, Inductive Effect of Palmatine on Apoptosis in RAW 264.7 Cells. *Evid Based Complement Alternat Med*, 2016;2016:7262054. PMID: 27340419
- 20) Wijekoon S, Chronological differential effects of pro-inflammatory cytokines on RANKL-induced osteoclast differentiation of canine bone marrow-derived macrophages. *J Vet Med Sci*. 2017, 79(12):2030-2035. PMID: 29109351

- 21) Maruyama K, Nociceptors Boost the Resolution of Fungal Osteoinflammation via the TRP Channel-CGRP-Jdp2 Axis. *Cell Rep*, 2017, 19(13):2730-2742. PMID: 28658621
- 22) Wijekoon HMS, Inhibitory effects of sodium pentosan polysulfate on formation and function of osteoclasts derived from canine bone marrow. *BMC Vet Res*. 2018, 14(1):152. PMID: 29720166
- 23) Jin SH, Actin-binding LIM Protein 1 Regulates Receptor Activator of NF- κ B Ligand-Mediated Osteoclast Differentiation and Motility. *BMB Rep*. 2018 Jul;51(7):356-361. PMID: 29921413
- 24) Nishida M, S100A12 facilitates osteoclast differentiation from human monocytes. *PLoS One*. 2018, 13(9):e0204140. PMID: 30235276
- 25) Ohnuma K, MicroRNA-124 inhibits TNF- α and IL-6-induced osteoclastogenesis. *Rheumatol Int*. 2019, 39(4):689-695. PMID: 30547186
- 26) Lee KA, Promotion of osteoclastogenesis by IL-26 in rheumatoid arthritis. *Arthritis Res Ther*, 2019, 21(1):283. PMID: 31831038
- 27) Kumagai M, Fluorinated Kavalactone Inhibited RANKL-Induced Osteoclast Differentiation of RAW264 Cells. *Biol Pharm Bull*. 2020, 43(5):898-903. PMID: 32378565
- 28) Lee EJ, Coumarin Ameliorates Impaired Bone Turnover by Inhibiting the Formation of Advanced Glycation End Products in Diabetic Osteoblasts and Osteoclasts. *Biomolecules*, 2020, 10(7):1052. PMID: 32679814
- 29) Na W, Aesculetin Inhibits Osteoclastic Bone Resorption through Blocking Ruffled Border Formation and Lysosomal Trafficking. *Int J Mol Sci*, 2020, 21(22):8581. PMID: 33203061
- 30) Nishioku T, (-)-Epigallocatechin-3-gallate inhibits RANKL-induced osteoclastogenesis via downregulation of NFATc1 and suppression of HO-1-HMGB1-RAGE pathway. *Biomed Res*. 2020, 41(6):269-277. PMID: 33268671

- 31) Park KH, Inhibitory Effect of Rosae Multiflorae Fructus Extracts on the Receptor Activator of NF- κ B Ligand-Induced Osteoclastogenesis through Modulation of P38- and Ca²⁺-Mediated Nuclear Factor of Activated T-Cells Cytoplasmic 1 Expression. *J Bone Metab.* 2020, 27(1):53-63. PMID: 32190609
- 32) Wada S, Bach1 Inhibition Suppresses Osteoclastogenesis via Reduction of the Signaling via Reactive Oxygen Species by Reinforced Antioxidation. *Front Cell Dev Biol*, 2020, 8:740. PMID: 32850850
- 33) Jeong S, Isoliquiritigenin Derivatives Inhibit RANKL-Induced Osteoclastogenesis by Regulating p38 and NF- κ B Activation in RAW 264.7 Cells. *Molecules*, 2020, 25(17):3908. PMID: 32867185
- 34) Lee EJ, Hydroxycoumarin Scopoletin Inhibits Bone Loss through Enhancing Induction of Bone Turnover Markers in a Mouse Model of Type 2 Diabetes. *Biomedicines*, 2021, 9(6):648. PMID: 34200167
- 35) Zhen G, An antibody against Siglec-15 promotes bone formation and fracture healing by increasing TRAP + mononuclear cells and PDGF-BB secretion. *Bone Res*, 2021, 9(1):47. PMID: 34719673
- 36) Haryati AH, Demethylbelamcandaquinone B from *Marantodes pumilum* var. *alata* (Blume) Kuntze inhibits osteoclast differentiation in RAW264.7 cells. *Asian Pac J Trop Biomed.* 2021, 11(12): 535-542.
- 37) Cho E, Identification of Novel Genes for Cell Fusion during Osteoclast Formation. *Int J Mol Sci*, 2022, 23(12):6421. PMID: 35742859
- 38) Hayashi C, miR-1260b inhibits periodontal bone loss by targeting ATF6 β mediated regulation of ER stress. *Front Cell Dev Biol*, 2022, 10:1061216. PMID: 36531939
- 39) Kelk P, *Aggregatibacter actinomycetemcomitans* Leukotoxin Activates the NLRP3 Inflammasome and Cell-to-Cell Communication. *Pathogens*, 2022,11(2):159. PMID: 35215102

- 40) Wijekoon S, Pentosan polysulfate regulates hepcidin 1-facilitated formation and function of osteoclast derived from canine bone marrow. PLoS One, 2022, 17(3):e0265596. PMID: 35299233
- 41) Okawa H, Mechanism of bisphosphonate-related osteonecrosis of the jaw (BRONJ) revealed by targeted removal of legacy bisphosphonate from jawbone using competing inert hydroxymethylene diphosphonate. Elife. 2022; 11: e76207. PMID: 36017995
- 42) Chen Q, Aberrant activation of TGF- β 1 induces high bone turnover via Rho GTPases-mediated cytoskeletal remodeling in Camurati-Engelmann disease. Front Endocrinol (Lausanne). 2022; 13: 913979. PMID: 36325441
- 43) Su XD, Aster saponin A2 inhibits osteoclastogenesis through mitogen-activated protein kinase-c-Fos-NFATc1 signaling pathway. J Vet Sci, 2022, 23(4):e47. PMID: 35698806
- 44) Kang IH, Quantitative increase in T regulatory cells enhances bone remodeling in osteogenesis imperfecta. iScience. 2022, 25(9):104818. PMID: 36034228
- 45) Yoshimoto S, IL-6 Plays a Critical Role in Stromal Fibroblast RANKL Induction and Consequent Osteoclastogenesis in Ameloblastoma Progression. Lab Invest, 2023, 103, 100023. PMID: 36748192
- 46) Ding M, Crucial Role of Lysine-Specific Histone Demethylase 1 in RANKL-Mediated Osteoclast Differentiation. Int J Mol Sci, 2023, 24(4):3605. PMID: 36835016
- 47) Blümke A, Comparison of osteoclast differentiation protocols from human induced pluripotent stem cells of different tissue origins. Stem Cell Res Ther, 2023, 14(1):319. PMID: 37936199
- 48) Omata Y, Essentiality of Nfatc1 short isoform in osteoclast differentiation and its self-regulation. Sci Rep, 2023, 13(1):18797. PMID: 37914750
- 49) Jang HY, Protaetia brevitaris Extract Attenuates RANKL-Induced Osteoclastogenesis by Inhibiting the JNK/NF- κ B/PLC γ 2 Signaling Pathway.

Nutrients. 2023, 15(14):3193. PMID: 37513611

- 50) Song J, A mixture of *Pueraria lobata* and *Platycodon grandiflorum* extracts ameliorates RANKL-induced osteoclast differentiation and ovariectomy-induced bone loss by regulating Src- PI3K-AKT and JNK/p38 signaling pathways. *Heliyon*, 2024, 10(2):e24842. PMID: 38312605
- 51) Fujikawa Y, Myeloid-derived suppressor cell-derived osteoclasts with bone resorption capacity in the joints of arthritic SKG mice. *Front Immunol*, 2024, 15:1168323. PMID: 38566990
- 52) Xue JY, SLC4A2 Deficiency Causes a New Type of Osteopetrosis. *J Bone Miner Res*, 2022, 37(2):226-235. PMID: 34668226
- 53) Gal M, Irilin D suppresses RANKL-induced osteoclastogenesis and prevents inflammation-induced bone loss by disrupting the NF- κ B and MAPK signaling pathways. *Eur J Pharmacol*, 2024, 982:176956. PMID: 39209096
- 54) Che L, Osteoclastic ATP6AP2 maintains β -catenin levels to prevent hyper-osteoclastic activation and trabecular bone-loss. *J Bone Miner Res*, 2024, 14:zjae164. PMID: 39400061
- 55) Xue P, Proton-activated chloride channel increases endplate porosity and pain in a mouse spine degeneration model. *J Clin Invest*, 2024, 134(20):e168155. PMID: 39196784
- 56) Park SG, The microbial metabolite imidazole propionate dysregulates bone homeostasis by inhibiting AMP-activated protein kinase (AMPK) signaling. *Commun Biol*, 2024, 7(1):1644. PMID: 39695168
- 57) Iwasaki Y, Suppression of bone resorption in ovariectomized mice using estrogen-immobilized polyphosphodiester. *Materialia*, 2024, 36: 102166.
- 58) Zhu K, The SIRT5-JIP4 interaction promotes osteoclastogenesis by modulating RANKL-induced signaling transduction. *Cell Commun Signal*. 2025, 23(1):26. PMID: 39810243

- 59) Wang H, Quercetagetin alleviates inflammatory osteoclastogenesis and collagen antibody-induced arthritis via Nrf2 signaling and Pten/AKT/Nfatc1 axis. *Arthritis Res Ther*, 2025, 27(1):54. PMID: 40057805
- 60) Kinoshita S, Distinct osteoclastogenic potential of granulocyte-macrophage colony-stimulating factor-induced monocyte subsets. *Bone Rep*, 2025, 27:101886. PMID: 41323640