

RANK Effector Reporter Cell

CBP74125

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I. Background

RANK/RANKL/OPG pathway plays a significant role in osteoclast maturation, which are the major cells in charge of bone resorption. If RANKL binds to the receptor RANK instead of binding to its decoy receptor Osteoprotegerin (OPG), it activates the NF- κ B pathway to promote osteoclast survival and proliferation, resulting in the resorption of bone. Therefore, abnormal production of RANKL or OPG can cause osteoporosis and other bone-related disorders, making the RANKL/RANK signaling pathway a valuable target for drug development.

II. Introduction

Expressed gene: RANK

Stability: 32 passages (in-house test, that not means the cell line will be instable beyond the passages we tested.)

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: MEM+10%FBS+NEAA+NaP+200ug/ml hygromycin+
1ug/ml puromycin



Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s): Functional (Report Gene) Assay

III. Representative Data

Dose response of Human Recombinant RANKL in RANK Effector Reporter Cell Line (C31)

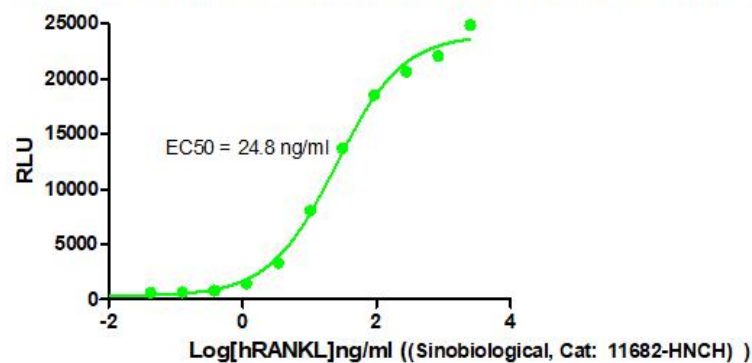


Figure 1. Dose response of Human Recombinant RANKL in RANK Effector Reporter Cell Line (C31).

Inhibition of RANKL-induced Reporter Activity by RANKL Neutralizing Antibody in RANK Effector Reporter Cells (Clone31)

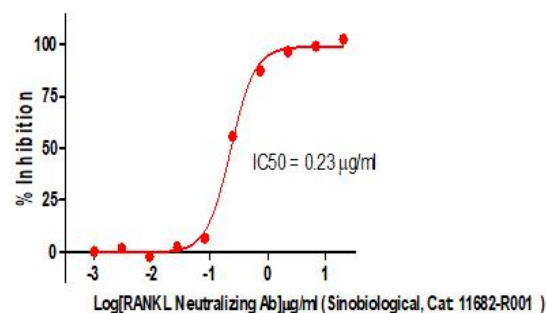


Figure 2. Inhibition of RANKL-induced Reporter Activity by RANKL Neutralizing Antibody in RANK Effector Reporter Cells (Clone31).

