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Product Datasheet

Human RANK protein, His tag, Unconjugated
GTX00262-PRO

Article Name	Human RANK protein, His tag, Unconjugated
Biozol Catalog Number	GTX00262-PRO
Supplier Catalog Number	GTX00262-pro
Alternative Catalog Number	GTX00262-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	8792
UniProt	Q9Y6Q6
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Val330~Lys615 (NP_001257878.1)

Application Notes	RANK tumor necrosis factor receptor superfamily member 11A protein (TNFRSF11A) also known as receptor Activator of Nuclear Factor kappa B (RANK) or TRANCE Receptoris a member of the tumor necrosis factor receptor (TNFR) molecular sub-family. TNFRSF11A is the receptor for RANK-Ligand (RANKL) and part of the RANK/RANKL/OPG signaling pathway that regulates osteoclast differentiation and activation. It is associated with bone remodeling and repair, immune cell function, lymph node development, thermal regulation, and mammary gland development. Besides, TNF Receptor Associated Factor 5 (TRAF5) has been identified as an interactor of TNFRSF11A, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TNFRSF11A and recombinant human TRAF5. Briefly, TNFRSF11A were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to TRAF5-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-TNFRSF11A pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of TNFRSF11A and TRAF5 was in a dose dependent manner.