## Osteoprotegerin/TNFRSF11B Monoclonal Antibody(Detector)

## catalog number: AN001770P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Reactivity	Human
Immunogen	Recombinant Human Osteoprotegerin/TNFRSF11B protein expressed by Mammalian
Host	Rat
Isotype	Rat IgG1
Clone	7D9
Purification	Protein A/G Purification
Buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.
Applications	Recommended Dilution
ELISA Detector	0.1-0.4 µg/mL
Data	
by the second subtracted standard curve using Osteoprotegerin/TNFRSF11B protein standard curve.Background subtracted standard curve using Osteoprotegerin/TNFRSF11B antibody(AN001760P) (Capture),Osteoprotegerin/TNFRSF11B Antibody(AN001770P)(Detector) in sandwich ELISA.The reference range value for Recombinant Human Osteoprotegerin/TNFRSF11B protein is 0.16-10 ng/mL.	
Preparation & Storage	
Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /
<b>61</b>	thaw cycles.
Snipping	temperature recommended
Background	

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TNFRSF11B is a secreted protein; containing 2 death domains and 4 TNFR-Cys repeats. TNFRSF11B is a decoy receptor for the receptor activator of nuclear factor kappa B ligand (RANKL). By binding RANKL; TNFRSF11B inhibits nuclear kappa B (NF-kB) which is a central and rapid acting transcription factor for immune-related genes; and a key regulator of inflammation; innate immunity; and cell survival and differentiation. TNFRSF11B levels are influenced by voltagedependent calcium channelsCav1.2. TNFRSF11B can reduce the production of osteoclasts by inhibiting the differentiation of osteoclast precursors (osteoclasts are related to monocytes/macrophages and are derived from granulocyte/macrophage-forming colony units (CFU-GM)) into osteoclasts and also regulates the resorption of osteoclasts in vitroand in vivo. TNFRSF11B binding to RANKL on osteoblast/stromal cells; blocks the RANKL-RANK ligand interaction between

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