

## Osteoprotegerin/TNFRSF11B Monoclonal Antibody(Detector)

catalog number: AN001770P

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

### Description

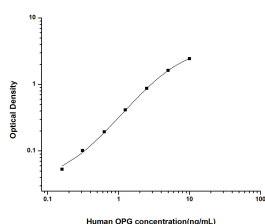
<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human Osteoprotegerin/TNFRSF11B protein expressed by Mammalian
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG1
<b>Clone</b>	7D9
<b>Purification</b>	Protein A/G Purification
<b>Conjugation</b>	Unconjugated
<b>Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

### Applications

### Recommended Dilution

<b>ELISA Detector</b>	0.1-0.4 µg/mL
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### Data



Sandwich ELISA-Recombinant Human 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

<b>Storage</b>	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
<b>Shipping</b>	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

### Background

### For Research Use Only

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-κB) 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 voltage-dependent calcium channels Cav1.2. 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 vitro and in vivo. TNFRSF11B binding to RANKL on osteoblast/stromal cells; blocks the RANKL-RANK ligand interaction between