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## 32-8612: Recombinant Human TNF Receptor Superfamily Member 11B/OPG (C-Fc)

Gene: TNFRSF11B Gene ID: 4982 **Uniprot ID:** 000300

## **Description**

Source: Human Cells. MW:47.2kD.

Recombinant Human Osteoprotegerin is produced by our Mammalian expression system and the target gene encoding Glu22-Leu201 is expressed with a Fc tag at the C-terminus. TNFRSF11B is a secreted protein, containing 2 death domains and 4 TNFR-Cvs 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 voltage-dependent calcium channelsCav1.2. TNFRSF11B can reduce the production of osteoclasts by inhibiting the differentiation of osteoclast precursors 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 osteoblast/stromal cells and osteoclast precursors. This has the effect of inhibiting the differentiation of the osteoclast precursor into a mature osteoclast.

## **Product Info**

Amount:  $10 \mu g / 50 \mu g$ 

Content: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Storage condition:

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted

samples are stable at -20°C for 3 months.

**Amino Acid:** ETFPPKYLHYDEETSHOLLCDKCPPGTYLKOHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVK

> QECNRTHNRVCECKEGRYLEIEFCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNETSSKAPCRKHTNCS VFGLLLTQKGNATHDNICSGNSESTQKCGIDVTLDIEGRMDPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDT LMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCK VSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPV

LDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

## **Application Note**

**Endotoxin :** Less than  $0.1 \text{ ng}/\tilde{A} \square \hat{A} \mu g$  (1 IEU/ $\tilde{A} \square \hat{A} \mu g$ ) as determined by LAL test.