

RP00786

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# Recombinant Mouse TNFRSF11B/Osteoprotegerin/OPG Protein

Catalog No.: RP00786

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18383	O08712

### Tags

C-10×His

### Synonyms

TNFRSF11B; OCIF; OPG; Osteoprotegerin; TR1; TNFRSF11B

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

### Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Background

Osteoprotegerin (OPG, Tnfrsf11b) is a secreted protein that regulates bone density. OPG is widely expressed and constitutively released as a homodimer by mesenchymal stem cells, fibroblasts and endothelial cells. Regulation of its expression by estrogen, parathyroid hormone and cytokines is complex and changes with age. OPG acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. TRAIL decreases the release of OPG from cells that express it, while OPG inhibits TRAIL-induced apoptosis. Expression of RANK L on the cell surface, and thus its ability to stimulate osteoclastogenesis, is regulated by OPG by intracellular and extracellular mechanisms. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. It may also play a role in preventing arterial calcification.

## Basic Information

### Description

Recombinant Mouse TNFRSF11B/Osteoprotegerin/OPG Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Glu22-Leu401) of mouse TNFRSF11B/Osteoprotegerin/OPG (Accession #O08712) fused with a 10×His tag at the C-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

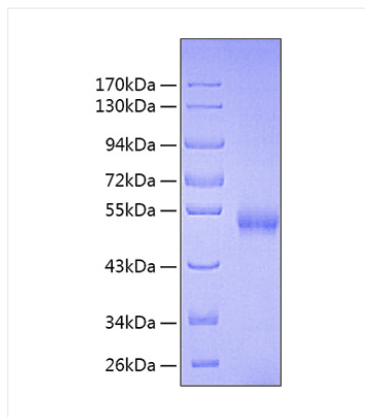
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Mouse  
TNFRSF11B/Osteoprotegerin/OPG Protein  
was determined by SDS-PAGE under  
reducing conditions with Coomassie Blue.