

Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein
TNFRSF11B, OCIF, OPG, Osteoprotegerin
Catalog # PBV11133r**Specification**

Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein - Product infoPrimary Accession
Calculated MW[O00300](#)

This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 44.4 kDa. The predicted N-terminus is Glu 22. DTT-reduced Protein migrates as 55 kDa due to glycosylation. KDa

Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein - Additional Info

Gene ID

4982

Gene Symbol

TNFRSF11B**Other Names**

TNFRSF11B, OCIF, OPG, Osteoprotegerin

Gene Source

Human

Source

HEK293 cells

Assay&Purity

SDS-PAGE; ≥95%

Assay2&Purity2

N/A;

Recombinant

Yes**Target/Specificity**

Osteoprotegerin / TNFRSF11B

Application Notes

Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

Format

Lyophilized

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH 7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein - Images**Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein - Background**

Tumor necrosis factor receptor superfamily member 11B (TNFRSF11B) is also known as Osteoclastogenesis inhibitory factor (OCIF), Osteoprotegerin (OPG). TNFRSF11B is a secreted homodimer protein, which can interact with TNFSF10 and TNFSF11. TNFRSF11B acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. TNFRSF11B inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

Human CellExp Osteoprotegerin / TNFRSF11B, human recombinant protein - References

Simonet W.S.,et al.Cell 89:309-319(1997).
Yasuda H.,et al.Endocrinology 139:1329-1337(1998).
Morinaga T.,et al.Eur. J. Biochem. 254:685-691(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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