

PP1107B1**Polyclonal Antibody to Osteoprotegerin / TNFRSF11B - Biotin****Alternate names:**

OCIF, OPG, Osteoclastogenesis inhibitory factor, Tumor necrosis factor receptor superfamily member 11B

Quantity:

25 µg

Background:

Osteoprotegerin (OPG) is a member of the TNF receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand (TNFSF11/OPGL), both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of the gene have been reported, but their full length nature has not been determined.

Uniprot ID:

[O00300](#)

NCBI:

[NP_002537.3](#)

GeneID:

[4982](#)

Host:

Rabbit

Immunogen:

Highly purified (> 98%) *E. Coli* derived recombinant Human OPG (*Cat.-No* PA159)
Remarks: Molecular Weight: 150 kDa

Format:

State: Lyophilized (sterile filtered) purified Ig fraction

Purification: Affinity Chromatography

Buffer System: PBS, pH 7.2 without preservatives

Label: Biotin

Reconstitution: Restore in sterile water to a concentration of 0.1-1.0 mg/ml.

Applications:

Sandwich ELISA: To detect Human OPG by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.25–1.0 µg/ml of this antibody is required. This Biotin conjugated antibody, in conjunction with purified anti-Human OPG antibody (*Cat.-No* PP1107P1 or PP1107P2) as a Capture antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human OPG.

Direct ELISA: To detect Human OPG by Direct ELISA (using 100 µl/well antibody solution) a concentration of 0.25–1.0 µg/ml of this antibody is required. This Biotin conjugated antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2-0.4 ng/well of recombinant Human OPG.

Western Blot To detect Human OPG by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human OPG is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Recognizes Human Osteoprotegerin (hOPG).
Other species not tested.

Add. Information: Centrifuge vial prior to opening!

Storage: Prior to reconstitution store at 2-8°C.
Following reconstitution store undiluted at 2-8°C for one month
or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures: Direct ELISA using Osteoprotegerin /
TNFRSF11B Antibody Cat.-No PP1107B

Sandwich ELISA using Osteoprotegerin /
TNFRSF11B Antibody Cat.-No PP1107B

