

**OPG Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10914****Specification**

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**OPG Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O00300</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	46026

**OPG Antibody - Additional Information****Gene ID** 4982

Positive Control	Human recombinant OPG
Application & Usage	Western Blot analysis (0.5-4 µg/ml). Recombinant human OPG can be used as a positive control. However, the optimal conditions should be determined individually.

**Other Names**

Osteoclastogenesis inhibitory factor, Osteoprotegerin

**Target/Specificity**

OPG

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-human OPG polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

OPG Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**OPG Antibody - Protein Information**

**Name** TNFRSF11B

**Synonyms** OCIF, OPG

**Function**

Acts as a decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

**Cellular Location**

Secreted.

**Tissue Location**

Highly expressed in adult lung, heart, kidney, liver, spleen, thymus, prostate, ovary, small intestine, thyroid, lymph node, trachea, adrenal gland, testis, and bone marrow. Detected at very low levels in brain, placenta and skeletal muscle. Highly expressed in fetal kidney, liver and lung

**OPG Antibody - 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](#)

**OPG Antibody - Images****OPG Antibody - Background**

Human OPG (Osteoprotegerin), also known as OCIF (Osteoclastogenesis inhibitory factor), is a member of the TNF receptor superfamily. It specifically acts on bone tissues and increases bone mineral density and bone volume associated with a decrease of active osteoclast number. Human OPG is a 20 kDa protein, comprising of 174 amino acid residues.