

Product datasheet for AP06631PU-N

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Osteoprotegerin (TNFRSF11B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 1-50 of Human OPG.
Specificity:	This antibody detects endogenous levels of Osteoprotegerin protein.
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~46 kDa
Gene Name:	tumor necrosis factor receptor superfamily member 11b



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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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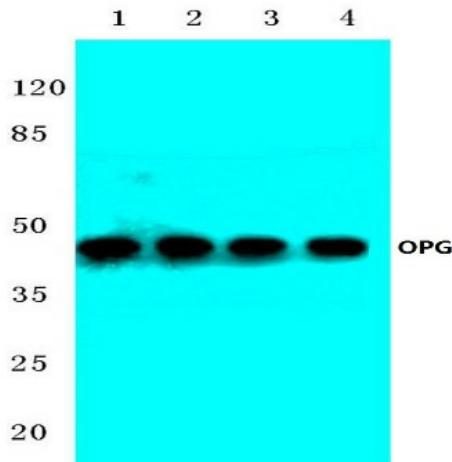
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Database Link: [Entrez Gene 4982 Human](#)
[O00300](#)

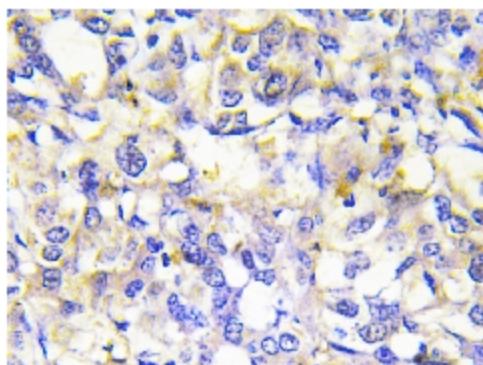
Background: Bone morphogenesis and remodeling involve the formation of bone from osteoblasts and the resorption of bone by osteoclasts. The cytokine osteoprotegerin (OPG), also designated Osteoclastogenesis Inhibitory Factor (OCIF), is known to inhibit osteoclast formation. A secreted glycoprotein, OPG is a member of the TNF receptor family that increases bone density and volume. OPG is thought to inhibit osteoclastogenesis by disrupting the cell-to-cell signaling between osteoblastic stromal cells and osteoclast progenitors. OPG is known to bind to TRAIL, a death domain-containing protein, and to inhibit TRAIL apoptosis in Jurkat cells. OPG also binds to osteoclast differentiation factor (ODF), also known as TRANCE/RANKL, a membrane-bound protein belonging to the TNF ligand family. Both TNF α and TNF β upregulate OPG expression, while the bone resorbing agent prostaglandin E2 downregulates OPG.

Synonyms: OPG, OCIF

Product images:



Western blot analysis of OPG antibody at 1/500 dilution [Lane 1: HeLa whole cell lysate](#)
[Lane 2: Mouse brain tissue lysate](#) [Lane 3: PC12 whole cell lysate](#) [Lane 4: Rat brain tissue lysate](#)



Immunohistochemistry analysis of OPG antibody in paraffin-embedded human liver carcinoma tissue