antibodies

# Datasheet for ABIN668556 anti-RANKL antibody (AA 221-300)

6 Images

12 Publications



## Overview

Quantity:	100 µL
Target:	RANKL (TNFSF11)
Binding Specificity:	AA 221-300
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RANKL antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

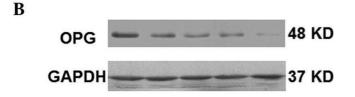
Immunogen:	KLH conjugated synthetic peptide derived from mouse OPG
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow
Purification:	Purified by Protein A.
Target Details	
Target:	RANKL (TNFSF11)

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Alternative Name:	
	OPG (TNFSF11 Products)
Background:	Synonyms: Opg, TR1, OCIF, Tumor necrosis factor receptor superfamily member 11B,
	Osteoclastogenesis inhibitory factor, Osteoprotegerin, Tnfrsf11b
	Background: Acts as 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 TNFSF1/TRAIL and protect against apoptosis. TNFSF1/TRAIL binding blocks the inhibition
	of osteoclastogenesis.
Gene ID:	18383
UniProt:	008712
Pathways:	NF-kappaB Signaling
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C

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Handling	
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Kerschan-Schindl, Schramek, Butylina, Föger-Samwald, Pietschmann: "Differential Expression
	of Dickkopf 1 and Periostin in Mouse Strains with High and Low Bone Mass." in: <b>Biology</b> , Vol. 11 , Issue 12, (2022) (PubMed).
	Zhan, Liu, Wang: "The Role of MicroRNA-143-5p in the Differentiation of Dental Pulp Stem Cells
	into Odontoblasts by Targeting Runx2 via the OPG/RANKL Signaling Pathway." in: <b>Journal of</b> cellular biochemistry, Vol. 119, Issue 1, pp. 536-546, (2018) (PubMed).
	Yu, Gong, Lin, Wang, Liu, Li: "Denervation effectively aggravates rat experimental periodontitis."
	in: Journal of periodontal research, Vol. 52, Issue 6, pp. 1011-1020, (2017) (PubMed).
	Zhang, Chen, Wei, Liu, Lei, Bai: "Ginsenosides Rg3 attenuates glucocorticoid-induced
	osteoporosis through regulating BMP-2/BMPR1A/Runx2 signaling pathway." in: <b>Chemico-</b>
	biological interactions, Vol. 256, pp. 188-97, (2016) (PubMed).
	Chen, Xue, Shen, Mu, Fu: "Curcumin alleviates glucocorticoid-induced osteoporosis through the
	regulation of the Wnt signaling pathway." in: International journal of molecular medicine, Vol.
	37, Issue 2, pp. 329-38, (2016) (PubMed).
	There are more publications referencing this product on: Product page



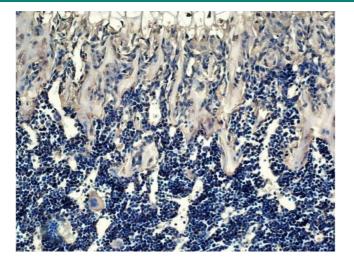
### **Western Blotting**

Image 1. Levels of OPG in third-generation osteoblasts following treatment with different doses of r-Mt cpn10 for 8 h. (A) Levels of OPG mRNA following treatment with the control or different doses of r-Mt cpn10 for 8 h. Cells were grown in serum-free medium for 24 h prior to stimulation. Total RNA was isolated from the harvested cells, transcribed to cDNA, and quantified by reverse transcription-quantitative polymerase chain reaction analysis. The amount of OPG mRNA was compared with the amount of the reference gene (GAPDH) mRNA. Values are expressed as the mean ± intra-assay variation of duplicate analyses. (B) Western blotting of OPG protein expression following treatment with the control or r-Mt cpn10 (0.01, 0.1, 1 and 10 µg/mL) for 8 h. (C) Quantification of the level of OPG protein following treatment with the control or r-Mt cpn10 (0.01, 0.1, 1 and 10 µg/mL) for 8 h. Results are expressed as the mean ± standard deviation. \*\*P<0.01 and \*\*\*P<0.001 compared with the control. r-Mt, recombinant Mycobacterium tuberculosis, cpn10, 10- kDa co-chaperonin, OPG, osteoprotegerin. - figure provided by CiteAb. Source: PMID25667654

### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded rat tibia tissue labeled with Anti-Osteoprotegerin Polyclonal Antibody (ABIN668556), Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining

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## Immunohistochemistry

**Image 3.** Generously provided by Markus Linder from Medical University Vienna as part of the Bioss Discovery Program. Formalin-fixed, paraffin embedded, and decalcified in EDTA mouse bone labeled with Anti-OPG Polyclonal Antibody, Unconjugated (ABIN668556) at 1:100 followed by conjugation to the secondary antibody and DAB staining

Please check the product details page for more images. Overall 6 images are available for ABIN668556.