Anti-OPG/TNFRSF11B Antibody

Catalog Number: *A00863*

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Basic Information

Product Name	Anti-OPG/TNFRSF11B Antibody
Gene Name	TNFRSF11B
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat, monkey
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Osteoprotegerin/TNFRSF11B recombinant protein (Position: Q247-R296).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	55 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Tumor necrosis factor receptor superfamily member 11B (TNFRSF11B), also known as OPG, is a protein that in humans is encoded by the TNFRSF11B gene. OPG is a cytokine receptor, and a member of the tumor necrosis factor (TNF) receptor superfamily. By analysis of radiation hybrids, TNFRSF11B gene was mapped to chromosome 8q24. OPG is a decoy receptor for the receptor activator of nuclear factor kappa B ligand (RANKL). By binding RANKL, OPG inhibits nuclear kappa B (NF-κB) which is a central and rapid acting transcription factor for immune-related genes, and a key regulator of inflammation, innate immunity, and cell survival and differentiation. OPG binding to RANKL on

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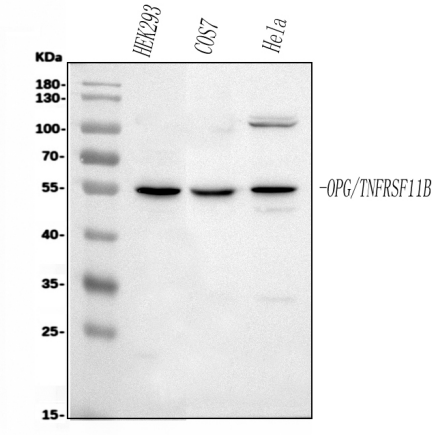
osteoblast/stromal cells, blocks the RANKL-RANK ligand interaction between osteoblast/stromal cells and ostepclast precursors.

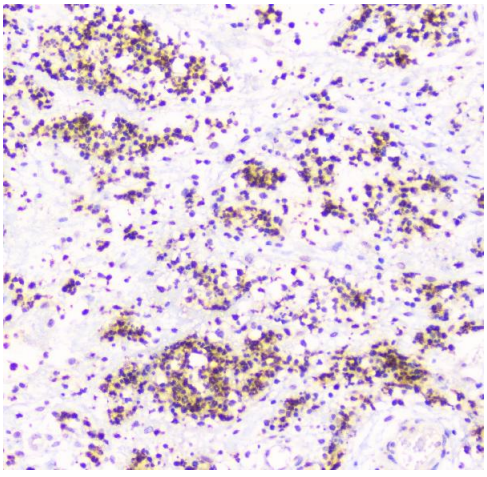
Reference

Anti-OPG/TNFRSF11B Antibody被引用在11文献中。

Selected Validation Data



Western blot analysis of anti-OPG/TNFRSF11B antibody (A00863). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HEK293 whole cell lysates,
Lane 2: monkey COS-7 whole cell lysates,
Lane 3: human Hela whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-OPG/TNFRSF11B antigen affinity purified polyclonal antibody (A00863) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for OPG/TNFRSF11B at approximately 55 kDa. The expected band size for OPG/TNFRSF11B is at 46 kDa.



IHC analysis of OPG/TNFRSF11B using anti-OPG/TNFRSF11B antibody (A00863).
OPG/TNFRSF11B was detected in a paraffin-embedded section of human appendicitis tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-OPG/TNFRSF11B Antibody (A00863) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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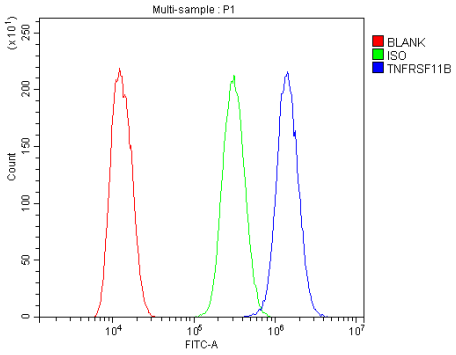

Flow Cytometry analysis of U2OS cells using anti-OPG/TNFRSF11B antibody (A00863).
Overlay histogram showing U2OS cells stained with A00863 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-OPG/TNFRSF11B Antibody (A00863) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.