Catalog #: APRab15357



#### **Summary**

**OPG Rabbit Polyclonal Antibody Production Name** 

Description Rabbit Polyclonal Antibody

Host Rabbit

**Application** WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA

Reactivity Human, Mouse

#### **Performance**

Conjugation Unconjugated Modification Unmodified

Isotype lgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

#### **Immunogen**

**Gene Name** TNFRSF11B

TNFRSF11B; OCIF; OPG; Tumor necrosis factor receptor superfamily member 11B; **Alternative Names** 

Osteoclastogenesis inhibitory factor; Osteoprotegerin; TR11B

Gene ID 4982.0

O00300. The antiserum was produced against synthesized peptide derived from human SwissProt ID

TR11B . AA range:10-59

#### **Application**

WB 1:500-1:2000, IHC-P 1:100-300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:100-300, Not yet **Dilution Ratio** 

tested in other applications.

Catalog #: APRab15357



Molecular Weight

55kDa

#### **Background**

The protein encoded by this gene 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, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined. [provided by RefSeq, Jul 2008], disease: Defects in TNFRSF11B are the cause of juvenile Paget disease (JPD) [MIM:239000]; also called hyperostosis corticalis deformans juvenilis or hereditary hyperphosphatasia or chronic congenital idiopathic hyperphosphatasia. JPD is a rare autosomal recessive osteopathy that presents in infancy or early childhood. The disorder is characterized by rapidly remodeling woven bone, osteopenia, debilitating fractures, and deformities due to a markedly accelerated rate of bone remodeling throughout the skeleton. Approximately 40 cases of JPD have been reported worldwide. Unless it is treated with drugs that block osteoclast-mediated skeletal resorption, the disease can be fatal, function: Acts as decoy receptor for 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 RANKL/OPG ratio. May also play a role in preventing arterial calcification. May act as decoy receptor for TRAIL and protect against apoptosis. TRAIL binding blocks the inhibition of osteoclastogenesis, induction: Up-regulated by increasing calciumconcentration in the medium and estrogens. Down-regulated by glucocorticoids., PTM:N-glycosylated. Contains sialic acid residues., PTM: The N-terminus is blocked., similarity: Contains 2 death domains., similarity: Contains 4 TNFR-Cys repeats., subunit: Homodimer., tissue specificity: 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.,

#### **Research Area**

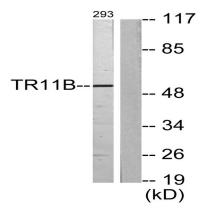
Cytokine-cytokine receptor interaction;

**Image Data** 

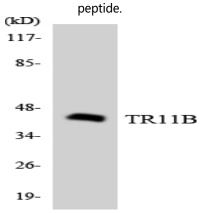
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Catalog #: APRab15357

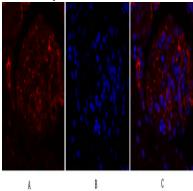




Western blot analysis of lysates from 293 cells, using TR11B Antibody . The lane on the right is blocked with the synthesized



Western blot analysis of the lysates from HeLa cells using TR11B antibody.



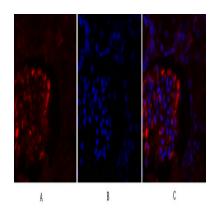
Immunofluorescence analysis of rat-kidney tissue. 1,OPG Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) .

2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

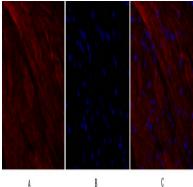
# Product Name: OPG Rabbit Polyclonal Antibody Catalog #: APRab15357

**C** EnkiLife

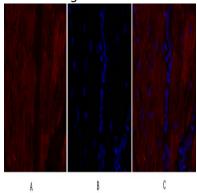


Immunofluorescence analysis of rat-kidney tissue. 1,OPG Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.





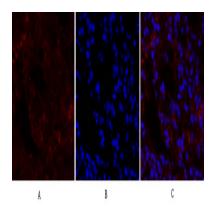
Immunofluorescence analysis of mouse-heart tissue. 1,OPG Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



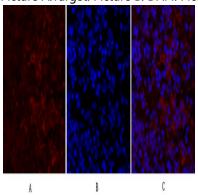
Immunofluorescence analysis of mouse-heart tissue. 1,OPG Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

Catalog #: APRab15357

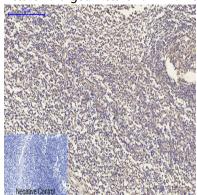




Immunofluorescence analysis of mouse-lung tissue. 1,OPG Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of mouse-lung tissue. 1,OPG Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1,OPG Polyclonal Antibody was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min) . Negative control was used by secondary antibody only.

Catalog #: APRab15357



#### Note

For research use only.