

RANKL Polyclonal Antibody

Catalog No :	YT5404
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	RANKL
Fields :	>>Cytokine-cytokine receptor interaction;>>NF-kappa B signaling pathway;>>Osteoclast differentiation;>>Prolactin signaling pathway;>>Parathyroid hormone synthesis, secretion and action;>>Chemical carcinogenesis - receptor activation;>>Breast cancer;>>Rheumatoid arthritis
Gene Name :	TNFSF11
Protein Name :	Tumor necrosis factor ligand superfamily member 11
Human Gene Id :	8600
Human Swiss Prot No :	O14788
Mouse Gene Id :	21943
Mouse Swiss Prot No :	O35235
Rat Gene Id :	117516
Rat Swiss Prot No :	Q9ESE2
Immunogen :	The antiserum was produced against synthesized peptide derived from the C-terminal region of human TNFSF11. AA range:268-317
Specificity :	RANKL Polyclonal Antibody detects endogenous levels of RANKL protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG

Dilution : WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000. IF 1:100-300 Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 35kD

Cell Pathway : Cytokine-cytokine receptor interaction;

Background : This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B ly

Function : disease:Defects in TNFSF11 are the cause of osteopetrosis autosomal recessive type 2 (OPTB2) [MIM:259710]; also known as osteoclast-poor osteopetrosis. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of non-functional osteoclasts. OPTB2 is characterized by paucity of osteoclasts, suggesting a molecular defect in osteoclast development.,function:Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an

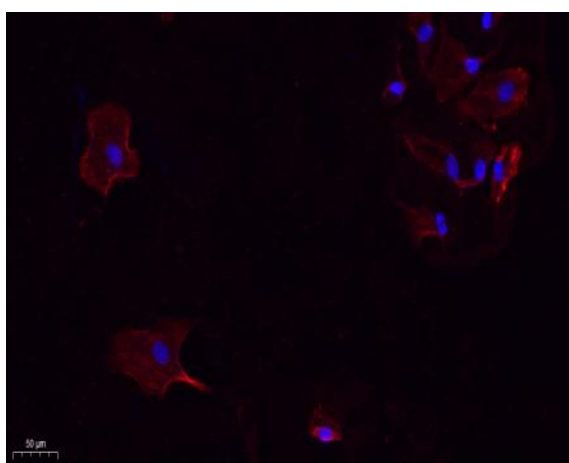
Subcellular Location : [Isoform 1]: Cell membrane; Single-pass type II membrane protein.; [Isoform 3]: Cell membrane; Single-pass type II membrane protein.; [Isoform 2]: Cytoplasm .; [Tumor necrosis factor ligand superfamily member 11, soluble form]: Secreted .

Expression : Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid.

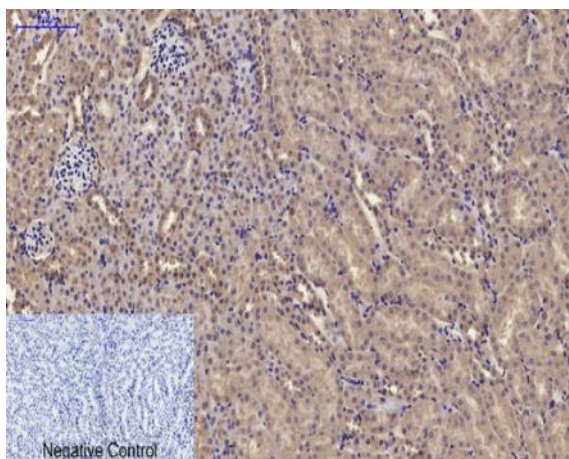
orthogonal,hot

Sagt::	1
No3 :	ab9957
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



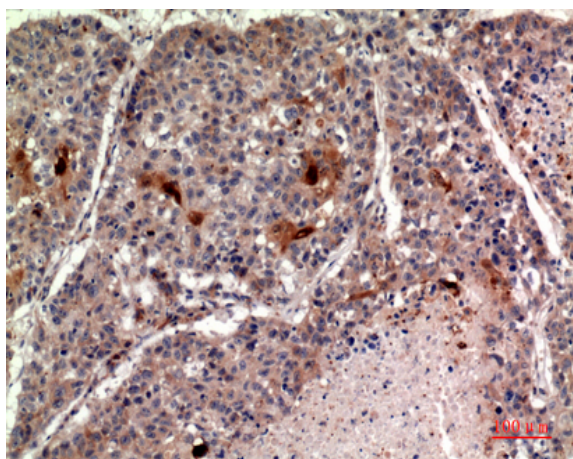
Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4 °C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



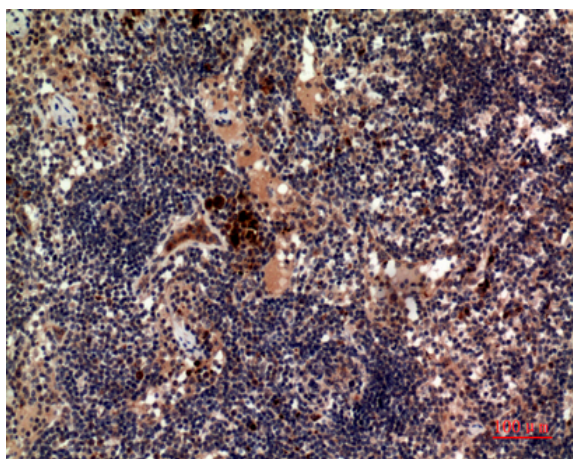
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,RANKL Polyclonal Antibody was diluted at 1:200(4 °C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used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



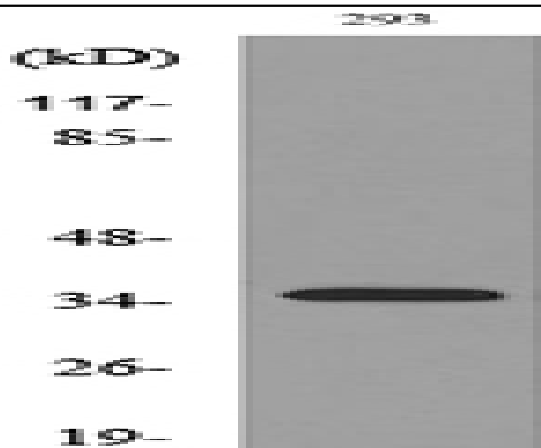
Western Blot analysis of 293 cells using RANKL Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-Lymph-nodes, antibody was diluted at 1:100



Western blot analysis of lysate from 293 cells, using TNFSF11 Antibody.