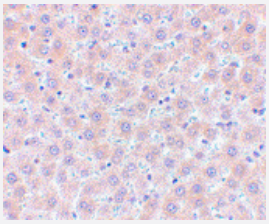
TNFSF11 polyclonal antibody

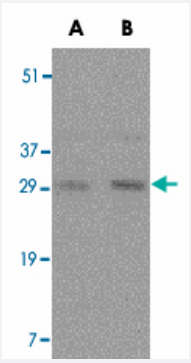
Catalog # PAB12974 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of TNFSF11 in human liver tissue with TNFSF11 polyclonal antibody (Cat # PAB12974) at 5 ug/mL .



Western Blot (Tissue lysate)

Western blot analysis of TNFSF11 in rat liver tissue lysate with TNFSF11 polyclonal antibody (Cat # PAB12974) at (A) 0.25 and (B) 0.5 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TNFSF11.
Immunogen	A synthetic peptide corresponding to internal region 14 amino acids of human TNFSF11.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (0.25-0.5 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemistry of TNFSF11 in human liver tissue with TNFSF11 polyclonal antibody (Cat # PAB12974) at 5 ug/mL .

- Western Blot (Tissue lysate)

  Western blot analysis of TNFSF11 in rat liver tissue lysate with TNFSF11 polyclonal antibody (Cat # PAB12974) at (A) 0.25 and (B) 0.5 ug/mL .

Gene Info — TNFSF11

Entrez GeneID	8600
Protein Accession#	NP_003692
Gene Name	TNFSF11
Gene Alias	CD254, ODF, OPGL, OPTB2, RANKL, TRANCE, hRANKL2, sOdf
Gene Description	tumor necrosis factor (ligand) superfamily, member 11
Omim ID	259710 602642
Gene Ontology	Hyperlink
Gene Summary	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 dentritic cell survival factor and is involved in the regulation of T cell-de pendent immune response. T cell activation was reported to induce expression of this gene and le ad to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiap optotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis fa ctor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regul ation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosi s and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two altern atively spliced transcript variants have been found. [provided by RefSeq

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Other Designations	OTTHUMP00000178585|TNF-related activation-induced cytokine|osteoclast differentiation factor| osteoprotegerin ligand|receptor activator of nuclear factor kappa B ligand|tumor necrosis factor li gand superfamily, member 11

Publication Reference

- Activation function 1 of progesterone receptor is required for mammary development and regulation of RANKL during pregnancy.

  Shi Hao Lee, Yeannie H Y Yap, Chew Leng Lim, Amanda Rui En Woo, Valerie C L Lin.

  Scientific Reports 2022 Jul; 12(1):12286.

  Application: WB-Ce, Mouse, Mouse mammary glands

- Evidence that receptor activator of nuclear factor (NF)-kappaB ligand can suppress cell proliferation and induce apoptosis through activation of a NF-kappaB-independent and TRAF6-dependent mechanism.

  Bharti AC, Takada Y, Shishodia S, Aggarwal BB.

  The Journal of Biological Chemistry 2004 Feb; 279(7):6065.

- Interleukin-7 stimulates osteoclast formation by up-regulating the T-cell production of soluble osteoclastogenic cytokines.

  Weitzmann MN, Cenci S, Rifas L, Brown C, Pacifici R.

  Blood 2000 Sep; 96(5):1873.

  Application: IP, Human, PBSCs

- OPGL is a key regulator of osteoclastogenesis, lymphocyte development and lymph-node organogenesis.

  Kong YY, Yoshida H, Sarosi I, Tan HL, Timms E, Capparelli C, Morony S, Oliveira-dos-Santos AJ, Van G, Itie A, Khoo W, Wakeham A, Dunstan CR, Lacey DL, Mak TW, Boyle WJ, Penninger JM.

  Nature 1999 Jan; 397(6717):315.

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Acute Disease
- Alveolar Bone Loss

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- Alzheimer disease
- Arthritis
- Bone Diseases
- Bone Resorption
- Calcinosis
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Fractures
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis
- Periodontitis
- Prosthesis Failure
- Scoliosis
- Spinal Fractures
- Tobacco Use Disorder

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