

TNFRSF11B Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13738c**Specification****TNFRSF11B Antibody (Center) Blocking peptide - Product Information**Primary Accession [O00300](#)**TNFRSF11B Antibody (Center) Blocking peptide - Additional Information****Gene ID 4982****Other Names**

Tumor necrosis factor receptor superfamily member 11B, Osteoclastogenesis inhibitory factor, Osteoprotegerin, TNFRSF11B, OCIF, OPG

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13738c was selected from the Center region of TNFRSF11B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TNFRSF11B Antibody (Center) Blocking peptide - Protein Information**Name TNFRSF11B****TNFRSF11B Antibody (Center) Blocking peptide - 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.

TNFRSF11B Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Liu, J.M., et al. J. Clin. Endocrinol. Metab. 95 (9), E112-E120 (2010) : Lieb, W., et al. Arterioscler. Thromb. Vasc. Biol. 30(9):1849-1854(2010) Paternoster, L., et al. J. Clin. Endocrinol. Metab. 95(8):3940-3948(2010) Hsu, Y.H., et al. PLoS Genet. 6 (6), E1000977 (2010) :

Synonyms OCIF, OPG**Function**

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 TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.

Cellular Location

Secreted.

Tissue Location

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

TNFRSF11B Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)