10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TNFSF11 / RANKL / TRANCE Antibody (Internal)

Rabbit Polyclonal Antibody
Catalog # ALS11732

Specification

TNFSF11 / RANKL / TRANCE Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	O14788
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**35kDa KDa**

TNFSF11 / RANKL / TRANCE Antibody (Internal) - Additional Information

Gene ID 8600

Other Names
Tumor necrosis factor ligand superfamily member 11, Osteoclast differentiation factor, ODF, Osteoprotegerin ligand, OPGL, Receptor activator of nuclear factor kappa-B ligand, RANKL, TNF-related activation-induced cytokine, TRANCE, CD254, Tumor necrosis factor ligand superfamily member 11, membrane form, Tumor necrosis factor ligand superfamily member 11, soluble form, TNFSF11, OPGL, RANKL, TRANCE

Target/Specificity
14 amino acid peptide from near the center of human sRANK-L

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
TNFSF11 / RANKL / TRANCE Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

TNFSF11 / RANKL / TRANCE Antibody (Internal) - Protein Information

Name TNFSF11

Synonyms OPGL, RANKL, TRANCE

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 important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy (PubMed:22664871). Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief

among which is induction of long lasting oscillations in the intracellular concentration of Ca (2+) resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts. During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation (By similarity).

Cellular Location
[Isoform 1]: Cell membrane; Single-pass type II membrane protein [Isoform 2]: Cytoplasm.

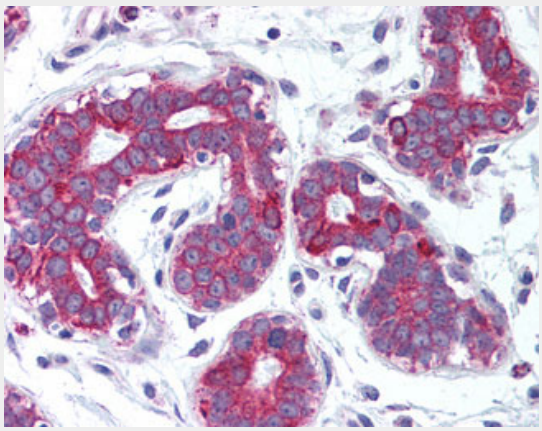
Tissue Location
Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid

TNFSF11 / RANKL / TRANCE Antibody (Internal) - Protocols

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

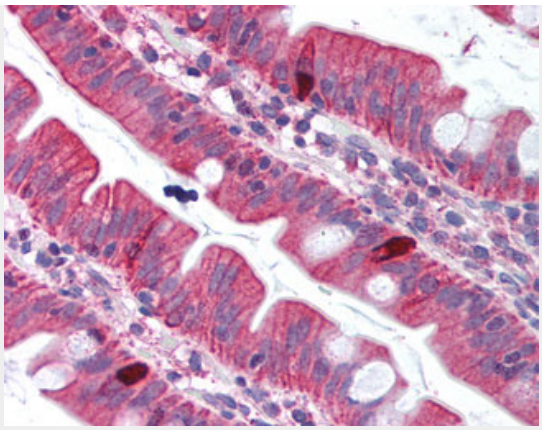
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TNFSF11 / RANKL / TRANCE Antibody (Internal) - Images



Anti-RANKL antibody IHC of human breast.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Anti-RANKL antibody IHC of human small intestine.

TNFSF11 / RANKL / TRANCE Antibody (Internal) - Background

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 important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.

TNFSF11 / RANKL / TRANCE Antibody (Internal) - References

Anderson D.M.,et al.Nature 390:175-179(1997).
Lacey D.L.,et al.Cell 93:165-176(1998).
Ikeda T.,et al.Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
Nagai M.,et al.Biochem. Biophys. Res. Commun. 269:532-536(2000).
Wong B.R.,et al.J. Biol. Chem. 272:25190-25194(1997).