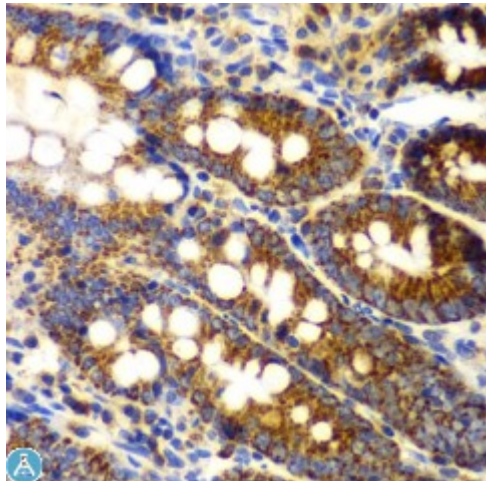


Anti-TNFSF11 Antibody



Description

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 lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found.

Model	STJ115528
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IF, IHC
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 78-317 of human TNFSF11 (NP_003692.1).
Gene ID	8600
Gene Symbol	TNFSF11
Dilution range	IHC 1:50 - 1:200

IF 1:50 - 1:200

Tissue Specificity	Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	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 cytokin
Molecular Weight	35.478 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:11926OMIM:259710Reactome:R-HSA-5668541
Alternative 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 cytokin
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 ,
Cellular Localization	Cell membrane
Post-translational Modifications	The soluble form of isoform 1 derives from the membrane form by proteolytic processing , The cleavage may be catalyzed by ADAM17,