

Product datasheet for **TA308970**

RANKL (TNFSF11) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human (Predicted: Bovine, Chicken, Mouse)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region within amino acids 253 and 317 of RANKL (Uniprot ID#O14788)
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35 kDa
Gene Name:	tumor necrosis factor superfamily member 11
Database Link:	NP_143026 Entrez Gene 21943 Mouse Entrez Gene 8600 Human O14788



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

Synonyms:

CD254; hRANKL2; ODF; OPGL; OPTB2; RANKL; sOdf; TRANCE

Note:

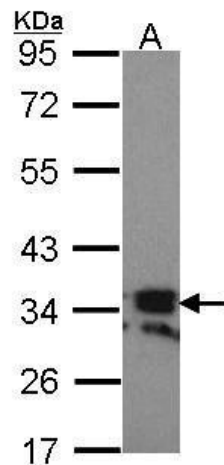
Seq homology of immunogen across species: Mouse (93%), Chicken (87%), Bovine (100%)

Protein Families:

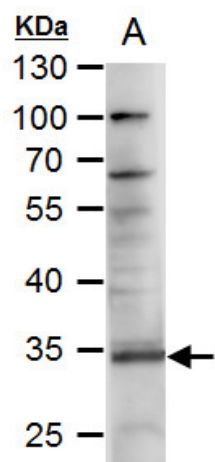
Druggable Genome, Transmembrane

Protein Pathways:

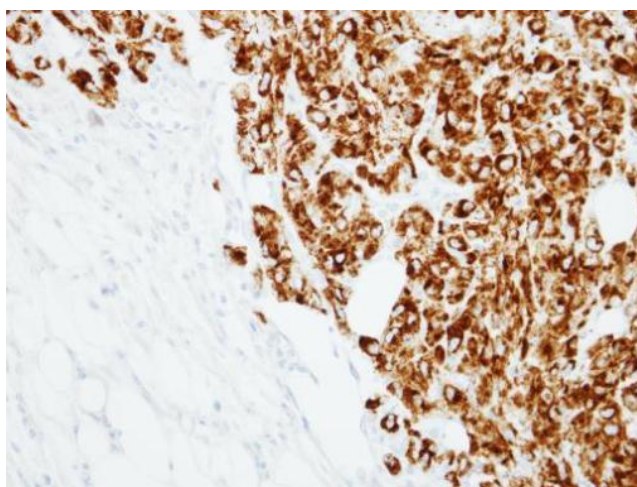
Cytokine-cytokine receptor interaction

Product images:

Sample (30 ug of whole cell lysate). A: Hela. 10% SDS PAGE. RANKL (CD254) antibody. TA308970 diluted at 1:1000.



RANKL antibody [C2C3], C-term detects RANKL protein by western blot analysis. A. 50 ug rat lung extract. 10 % SDS-PAGE. RANKL antibody [C2C3], C-term (TA308970) dilution: 1:1000



Immunohistochemical analysis of paraffin-embedded U87 xenograft, using RANKL (TA308970) antibody at 1:100 dilution.