

## Product datasheet for **TA308971**

### **RANKL (TNFSF11) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB:1:500-1:3000
Reactivity:	Human (Predicted: Mouse, Rat, Bovine)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region within amino acids 1 and 45 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:	<a href="#">NP_143026</a> <a href="#">Entrez Gene 21943 Mouse</a> <a href="#">Entrez Gene 117516 Rat</a> <a href="#">Entrez Gene 8600 Human</a> <a href="#">O14788</a>



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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:**

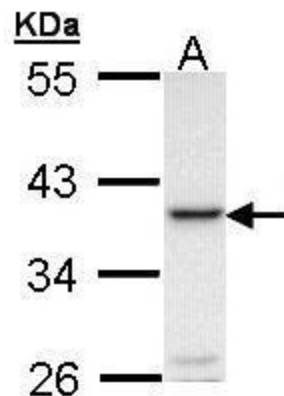
Seq homology of immunogen across species: Mouse (86%), Rat (86%), Bovine (100%)

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Cytokine-cytokine receptor interaction

**Product images:**

Sample (30 ug of whole cell lysate). A: Molt-4.  
10% SDS PAGE. TA308971 diluted at 1:1000.