

#### OriGene Technologies, Inc.

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# Product datasheet for TP723867

### RANKL (TNFSF11) (NM\_003701) Human Recombinant Protein

## **Product data:**

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human tumor necrosis factor (ligand) superfamily, member 11 (TNFSF11 / RANKL), transcript variant 1
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Human TRANCE, the region of Gly136-Asp317, from gene Accession# NM_003701
Tag:	N-His
Predicted MW:	22.7 kDa
Concentration:	lot specific
Purity:	>95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS, pH 6.5
Bioactivity:	Bioactivity was measured by its property to induce osteoclast differentiation in RAW264.7 cells in the presence of 2.5 $\mu$ g/ml of anti-His tag antibody (Cat. No. 652501).
Endotoxin:	Less than 0.01 ng per $\mu$ g protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	<u>NP 003692</u>
Locus ID:	8600
UniProt ID:	<u>014788</u>
RefSeq Size:	2226
Cytogenetics:	13q14.11
RefSeq ORF:	951
Synonyms:	CD254; hRANKL2; ODF; OPGL; OPTB2; RANKL; sOdf; TNLG6B; TRANCE



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#### CRIGENE RANKL (TNFSF11) (NM\_003701) Human Recombinant Protein – TP723867

Summary:This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a<br/>ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and<br/>activation. This protein was shown to be a dentritic cell survival factor and is involved in the<br/>regulation of T cell-dependent immune response. T cell activation was reported to induce<br/>expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This<br/>protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex<br/>involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which<br/>indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption<br/>of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient<br/>mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form<br/>lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript<br/>variants have been found. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

#### **Product images:**



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