

## Active Recombinant Human TNFRSF11A, hFc-tagged

Cat. No. TNFRSF11A-30901TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 29-213 of Human RANK fused at the C-terminus to the Fc portion of Human IgG1; MWt 55 kDa .
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	29-213 a.a.
<b>Description</b>	<p>The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptors can interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. This receptor and its ligand are important regulators of the interaction between T cells and dendritic cells. This receptor is also an essential mediator for osteoclast and lymph node development. Studies of the mouse counterpart suggest that this receptor directly mediates the osteoprotegerin ligand (OPGL)-induced osteoclastogenesis in osteoclast precursor cells.</p>
<b>Conjugation</b>	Fc
<b>Molecular Weight</b>	55.000kDa inclusive of tags
<b>Tissue specificity</b>	Ubiquitous expression with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.

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<b>Biological activity</b>	Inhibits Human rhsRANKL biological functions. Binds to Human and Mouse RANKL.
<b>Form</b>	Lyophilised:Reconstitute with 50µl sterile water to give a final concentration of 1mg/ml.
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: NoneConstituents: PBS
<b>Storage</b>	Store at -20°C, Stable for 6 months at -20°C
<b>Sequence Similarities</b>	Contains 4 TNFR-Cys repeats.

## GENE INFORMATION

<b>Gene Name</b>	TNFRSF11A tumor necrosis factor receptor superfamily, member 11a, NFKB activator [ Homo sapiens ]
<b>Official Symbol</b>	TNFRSF11A
<b>Synonyms</b>	TNFRSF11A; tumor necrosis factor receptor superfamily, member 11a, NFKB activator; tumor necrosis factor receptor superfamily, member 11a, activator of NFKB; tumor necrosis factor receptor superfamily member 11A; CD265; RANK;
<b>Gene ID</b>	8792
<b>mRNA Refseq</b>	NM_003839
<b>Protein Refseq</b>	NP_003830

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<b>MIM</b>	603499
<b>Uniprot ID</b>	Q9Y6Q6
<b>Chromosome Location</b>	18q22.1
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Osteoclast Signaling, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;
<b>Function</b>	cytokine binding; metal ion binding; protein binding; receptor activity; transmembrane signaling receptor activity;

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