Receptor Activator of Nuclear Factor Kb Ligand (RANKL) ELISA Kit for Pigeon

PRODUCT OVERVIEW

Product Name	Receptor Activator of Nuclear Factor Kb Ligand (RANKL), ELISA Kit
Full Product Name	Pigeon Receptor Activator of Nuclear Factor Kb Ligand ELISA Kit
Product Gene Name	RANKL elisa kit
Species Reactivity	Pigeon
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	35,478 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (43136872..43182149). Location: 13q14
OMIM	259710
3D Structure	ModBase 3D Structure for O14788
Related Product Information for RANKL elisa kit	MBS075871 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Receptor Activator of Nuclear Factor Kb Ligand (RANKL) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RANKL. The ELISA analytical biochemical technique of the MBS075871 kit is based on RANKL antibody-RANKL antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RANKL antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RANKL. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RANKL elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RANKL. It may not necessarily be applicable to this product.

NCBI GI #	2612922
NCBI GeneID	8600
NCBI Accession #	AAB86811.1
UniProt Primary Accession #	O14788
UniProt Secondary Accession #	O14723; Q96Q17; Q9P2Q3
UniProt Related Accession #	O14788
NCBI Official Full Name	RANKL
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 11
NCBI Official Symbol	TNFSF11
NCBI Official Synonym Symbols	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 11
UniProt Synonym Protein Names	Osteoclast differentiation factor; ODF; Osteoprotegerin ligand; OPGL; Receptor activator of nuclear factor kappa-B ligand; RANKL; TNF-related activation-induced cytokine

UniProt Gene Name	TNFSF11
UniProt Synonym Gene Names	OPGL; RANKL; TRANCE; ODF; OPGL; RANKL; TRANCE
UniProt Entry Name	TNF11_HUMAN
NCBI Protein Information	tumor necrosis factor ligand superfamily member 11; osteoprotegerin ligand; osteoclast differentiation factor; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligand
NCBI Summary for RANKL	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 dentritic 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, Jul 2008]
UniProt Comments for RANKL	TNFSF11: 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. Homotrimer. Up-regulated by T-cell receptor stimulation. Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid. Belongs to the tumor necrosis factor family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 13q14 Cellular Component: extracellular space; integral to plasma membrane; cytoplasm; extracellular region Molecular Function: cytokine activity; tumor necrosis factor receptor superfamily binding; tumor necrosis factor receptor binding Biological Process: ossification; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of osteoclast differentiation; cytokine and chemokine mediated signaling pathway; mammary gland epithelial cell proliferation; osteoclast differentiation; activation of JNK activity; positive regulation of corticotropin-releasing hormone secretion; activation of NF-kappaB transcription factor; positive regulation of homotypic cell-cell adhesion; calcium ion homeostasis; positive regulation of protein kinase B signaling cascade; positive regulation of MAP kinase activity; monocyte chemotaxis; organ morphogenesis; tumor necrosis factor-mediated signaling pathway; positive regulation of bone resorption; immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; positive regulation of T cell activation; protein homooligomerization; bone resorption Disease: Osteopetrosis, Autosomal Recessive 2
Research Articles on RANKL	**1.** Serum expression of OPG and RANKL/OPG ratio were lower and higher, respectively, in neuroendocrine tumor patients harboring bone neoplasms (BM) than in those without BM.
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