

Datasheet for KOA0505**Human TNFSF11 - RANKL ELISA Kit****Overview**

Description:	Human TNFSF11/RANKL AccuSignal ELISA Kit - KOA0505
Item No.:	KOA0505
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	78 pg/ml - 5000 pg/ml

Product Details

Background:	Receptor activator of nuclear factor kappa-B ligand(RANKL), also known as tumor necrosis factor ligand superfamily member 11(TNFSF11), is a protein that in humans is encoded by the TNFSF11 gene. 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 gene is mapped to chromosome13q14.11. 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. This gene may play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.
Synonyms:	CD254, CD254 antigen, hRANKL2, ODF, OPGL, OPTB2, Osteoclast differentiation factor, Osteoprotegerin ligand, RANKL, receptor activator of nuclear factor kappa B ligand, Receptor activator of nuclear factor kappa-B ligand, sOdf, soluble form, TNF-related activation-induced cytokine, TNF11_HUMAN, Tnfsf11, TRANCE, tumor necrosis factor (ligand) superfamily, member 11, Tumor necrosis factor ligand superfamily member 11
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	TNFSF11
Reactivity:	Human

Immunogen:	Expression system for standard: NSO; Immunogen sequence: G64-D245
Purity/Specificity:	Natural and recombinant human TNFSF11. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - O14788 • NCBI - NP_003692.1 • GeneID - 8600 • KOA0505 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml human TNFSF11 standard solutions into the pre-coated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each human TNFSF11 standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	78 pg/ml-5000pg/ml
Other:	DOE: 04/14/2025 @ 4° C 10/14/2025 @ -20° C

Formulation

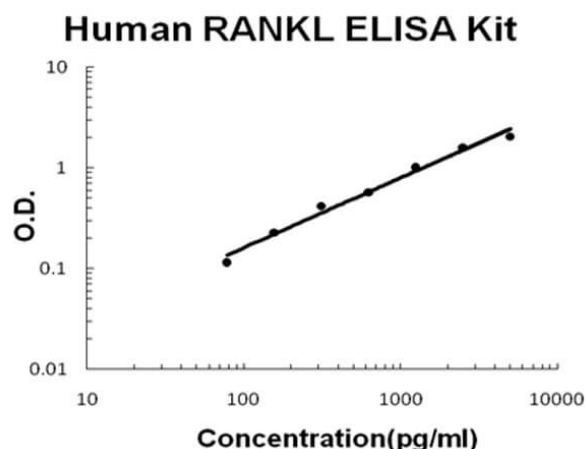
Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human TNFSF11/RANKL AccuSignal ELISA Kit standard curve.
Assay Range: 78pg/ml-5000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.