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Datasheet for ABIN1889423 TNFRSF11A ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	TNFRSF11A
Binding Specificity:	AA 30-213
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Rat RANK
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q30-P213
Specificity:	Expression system for standard: NSO Immunogen sequence: Q30-P213
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

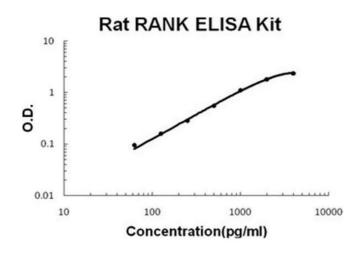
Target Details

Target:	TNFRSF11A
Alternative Name:	TNFRSF11A (TNFRSF11A Products)
Background:	Background: Receptor Activator of Nuclear Factor i° B (RANK), also known as TRANCE
	Receptor, is a type I membrane protein that is expressed on the surface of osteoclasts and is
	involved in their activation upon ligand binding. RANK is a recently described TNF receptor
	family member, and its ligand, RANKL, promote survival of dendritic cells and differentiation of
	osteoclasts. RANK contains 383 amino acids in its intracellular domain(residues 234-616),
	which contain three putative TRAF-binding domains(termed I, II, and III). RANK interacts with
	various TRAFs through distinct motifs and activates NF-kappaB via a novel TRAF6 interaction
	motif, which then activates NIK, thus leading to NF-kappaB activation, whereas RANK most
	likely activates JNK through a TRAF2-interacting region in RANK. The standard in this kit is
	recombinant human RANK with the sequence of Q29-G213 aa. It is a dipolymer which compose
	of two chains, and the molecular weight of each is 48kda.
	Synonyms: Protein Tnfrsf11a ,Tnfrsf11a ,
	Full Gene Name: tumor necrosis factor receptor superfamily, member 11a, NFKB activator
Gene ID:	498206
UniProt:	F1M8Z6
Pathways:	NF-kappaB Signaling
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	rat RANK ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for RANK has been precoated onto

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Application Details

	96-well plates. Standards(NSO, Q30-P213) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for RANK is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat RANK amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL rat RANK standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each rat RANK standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 880, Standard deviation: 36.96, CV(%): 4.2 Sample 2: n=16, Mean(pg/ml): 1954, Standard deviation: 107.5, CV(%): 5.5 Sample 3: n=16, Mean(pg/ml): 2755, Standard deviation: 159.8, CV(%): 5.8, Sample 1: n=24, Mean(pg/ml): 950, Standard deviation: 51.3, CV(%): 5.4 Sample 2: n=24, Mean(pg/ml): 2160, Standard deviation: 138.2, CV(%): 6.4 Sample 3: n=24, Mean(pg/ml): 3052, Standard deviation: 228.9, CV(%): 7.5
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Rat RANK PicoKine ELISA Kit standard curve

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