

Datasheet for ABIN7275516
RANKL Protein (AA 63-244)

3 Images

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Overview

Quantity:	100 µg
Target:	RANKL (TNFSF11)
Protein Characteristics:	AA 63-244
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

Product Details

Purpose:	Human RANKL/TNFSF11/CD254 Protein
Sequence:	Gly63-Asp244
Characteristics:	Recombinant Human RANKL/TNFSF11/CD254 Protein is expressed from HEK293 without tag.It contains Gly63-Asp244.
Purity:	> 90 % as determined by Tris-Bis PAGE,> 90 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.030 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	RANKL (TNFSF11)
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Target Details

Alternative Name:	RANKL (TNFSF11 Products)
Background:	Receptor activator of nuclear factor κ B (RANK) and its ligand (RANKL) have originally been described for their key roles in bone metabolism and the immune system. Subsequently, it has been shown that the RANKL-RANK system is critical in the formation of mammary epithelia in lactating females and the thermoregulation of the central nervous system. RANKL and RANK are under the tight control of the female sex hormones estradiol and progesterone.
Molecular Weight:	20.5 kDa. Due to glycosylation, the protein migrates to 30-60 kDa based on Tris-Bis PAGE results.
Pathways:	NF-κB Signaling

Application Details

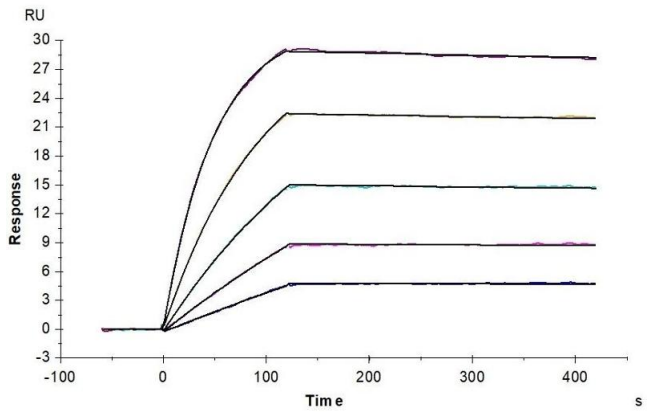
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C, -80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., -2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

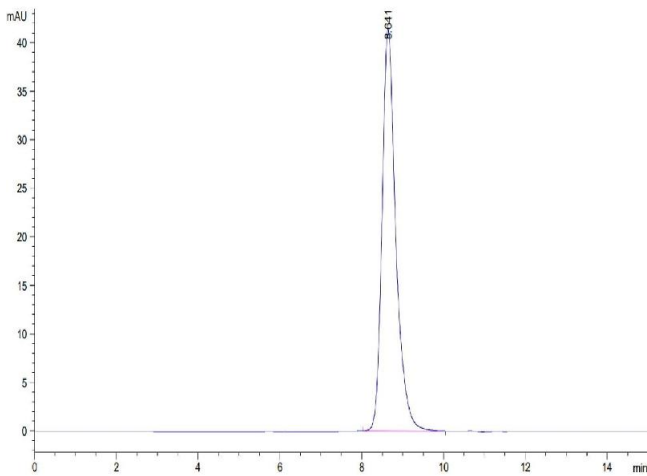
Surface Plasmon Resonance

Image 1. Human TNFRSF11B, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human RANKL, No Tag with an affinity constant of 0.030 nM as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human Rankl is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human Rankl on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

