

For Research Use Only

Recombinant Human RANK/TNFRSF11A protein (rFc Tag)



Catalog Number: Eg3521

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human RANK protein Ile30-Pro212 (Accession# Q9Y6Q6-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
8792

Accession:
Q9Y6Q6-1

Predicted Molecular Mass:
46.4 kDa

SDS-PAGE:
46-55 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

TNFRSF11A, also known as receptor activator of NF-κB (RANK), is a novel member of the TNF receptor family and was known to be a receptor for RANKL in T-cell and dendritic cell interaction. RANK is a type I homotrimeric transmembrane protein whose expression was initially detected only on osteoclast precursors (OCPs), mature osteoclasts, and dendritic cells. RANK activates several signaling pathways, such as NF-κB, JNK, ERK, p38α, and Akt/PKB. RANK signaling pathway is essential for differentiation, activation and survival of osteoclasts.

References

1. Boyce BF and Xing L. (2007) Arthritis Res Ther. 9 Suppl 1(Suppl 1):S1.
2. von dem Knesebeck A. et al. (2012) Neoplasia. 14(6):526-534.
3. González-Suárez E and Sanz-Moreno A. (2016) FEBS J. 283(11):2018-2033.
4. Yasuda H. (2021) J Bone Miner Metab. 39(1):2-11.

Synonyms

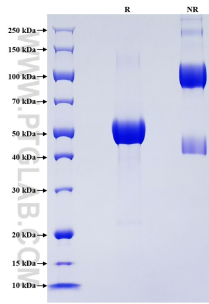
TNFRSF11A, CD265, RANK, Receptor activator of NF KB, Receptor activator of NF-KB

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Human RANK was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.