Recombinant Mouse TNFSF11/RANKL/CD254 Protein

Catalog No.: RP00745

Sequence Information

Species
Mouse

Gene ID
21943

Swiss Prot
O35235

Tags
No tag

Synonyms
Tumor necrosis factor ligand superfamily member 11,Tnfsf11, Osteoclast differentiationfactor, ODF,Osteoprotegerin ligand,OPGL, Receptor activator of nuclear factor kappa-Bligand,RANKL,TNF-related activation-induced cytokine,TRANCE,CD254, TNFSF11

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
20.06 kDa

Observed MW
15-25 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Mouse tumor necrosis factor ligand superfamily member 11(Tnfsf11) is a member of the tumor necrosis factor(TNF) cytokine family. Tnfsf11 is widely expressed in cells including T cells and T cell rich organs, such asthymus and lymph nodes. This cytokine can bind to TNFRSF11B/OPG andTNFRSF11A /RANK. Tnfsf11 is involvedin a number of fundamental biological processes such as acting as regulator of interactions between T-cells anddendritic cells, the regulation of the T-cell-dependent immune response and enhancing bone-resorption inhumoral hypercalcemia of malignancy. It augments the ability of dendritic cells to stimulate naive T-cellproliferation.

Basic Information

Description
Recombinant Mouse TNFSF11/RANK L/TRANCE Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Arg156-Asp316) of mouse TNFSF11/RANK L/TRANCE (Accession #O35235).

Activity
Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED_{50} for this effect is 2.30-9.22 ng /mL, corresponding to a specific activity of 1.08×10^5~4.35×10^5 units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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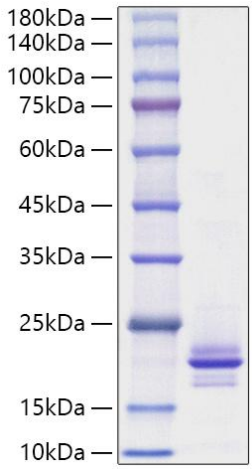
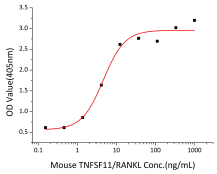
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Mouse TNFSF11/RANKL/CD254 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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