

## Recombinant Human TNFSF11/RANKL/CD254 Protein

RPCB0324

### Description

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This high-purity Recombinant Human TNFSF11/RANKL/CD254 Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Protein Information

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<b>SKU:</b>	RPCB0324
<b>Contents:</b>	10 µg, 20 µg, 50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
<b>Synonyms:</b>	TNFSF11, CD254, ODF, OPGL, OPTB2, RANKL, TNLG6B, TRANCE, hRANKL2, sOdf
<b>Species:</b>	Human
<b>Gene ID:</b>	8600
<b>Expression Host:</b>	HEK293 cells
<b>Tags:</b>	N-His
<b>Calculated MW:</b>	21.32 kDa
<b>Observed MW:</b>	35 kDa
<b>Purification:</b>	≥ 95 % as determined by SDS-PAGE, ≥ 90 % as determined by HPLC.
<b>Endotoxin:</b>	< 0.1 EU/µg of the protein by LAL method.
<b>Formulation:</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.
<b>Bio- Activity:</b>	1. Measured by its binding ability in a functional ELISA. Immobilized Human TNFSF11 Protein at 2 µg/mL (100 µL/well) can bind Mouse TNFRSF11B with a linear range of 0.049-13.74 ng/mL.

**Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited**

2. Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED50 for this effect is 10.85-43.42 ng/mL, corresponding to a specific activity of  $2.30 \times 10^4 \sim 9.22 \times 10^4$  units/mg.

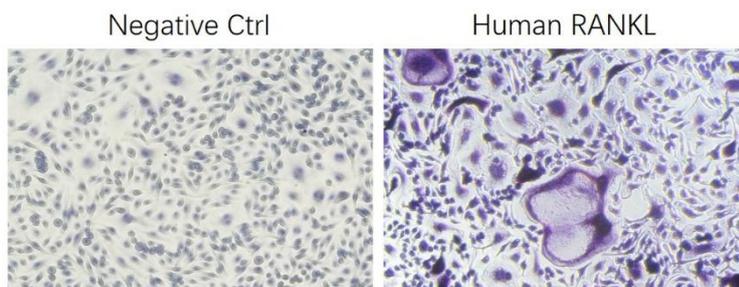
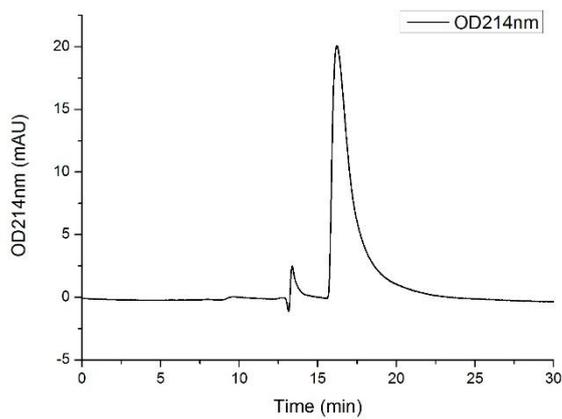
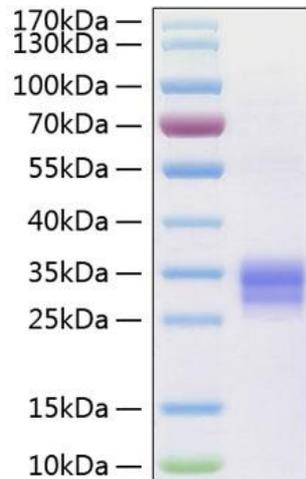
## Preparation & Storage

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- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- Storage:** Store at  $-20^{\circ}\text{C}$ . Store the lyophilized protein at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at  $-20^{\circ}\text{C}$  for 3 months, at  $2-8^{\circ}\text{C}$  for up to 1 week. Store Bradford Reagent at Room Temperature for 1 Year.
- 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
- Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

## Validation Data

### Image

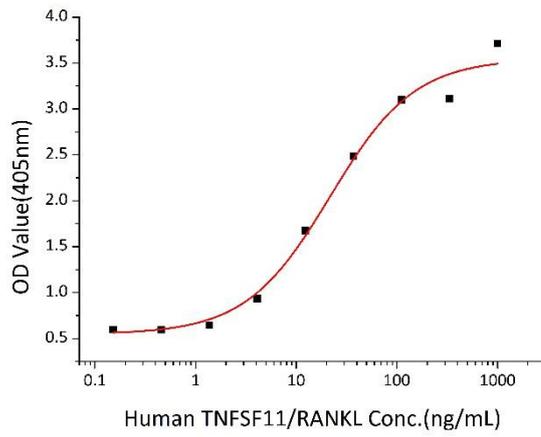


### Description

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

The purity of Human TRANCE/RANK L/TNFSF11 Protein (RPCB0324) was greater than 90% as determined by SEC-HPLC.

Measured by its ability to induce osteoclast differentiation of mouse bone marrow cells.



Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED50 for this effect is 10.85-43.42 ng/mL, corresponding to a specific activity of  $2.30 \times 10^4 \sim 9.22 \times 10^4$  units/mg.