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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# RANKL (h): 293T Lysate: sc-127849

## BACKGROUND

Members of the tumor necrosis factor (TNF) receptor superfamily interact with signaling molecules of the TNF receptor-associated factor (TRAF) family to activate the NF $\kappa$ B and JNK pathways. RANK (receptor activator of NF $\kappa$ B) is a member of the TNFR family identified on dendritic cells. This type I membrane receptor is expressed in a broad range of tissues. The C-terminus of RANK is required for RANK to bind TRAF2, 5 and 6, and it is also necessary for stimulating NF $\kappa$ B activation. The ligand for this receptor, RANKL (also designated TRANCE, OPGL or ODF), is a type II transmembrane protein expressed primarily in lymphoid tissues and T cell lines. RANKL appears to be an important regulator of T cells and osteoclasts.

## REFERENCES

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2. Natoli, G., et al. 1997. Tumor necrosis factor (TNF) receptor 1 signaling downstream of TNF receptor-associated factor 2. Nuclear factor  $\kappa$ B (NF $\kappa$ B)-inducing kinase requirement for activation of activating protein 1 and NF $\kappa$ B but not of c-Jun N-terminal kinase/stress-activated protein kinase. *J. Biol. Chem.* 272: 26079-26082.
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6. Wong, B.R., et al. 1998. The TRAF family of signal transducers mediates NF $\kappa$ B activation by the TRANCE receptor. *J. Biol. Chem.* 273: 28355-28359.
7. Kim, N., et al. 2000. Diverse roles of the tumor necrosis factor family member TRANCE in skeletal physiology revealed by TRANCE deficiency and partial rescue by a lymphocyte-expressed TRANCE transgene. *Proc. Natl. Acad. Sci. USA* 97: 10905-10910.
8. Sezer, O., et al. 2003. RANK ligand and osteoprotegerin in myeloma bone disease. *Blood* 101: 2094-2098.
9. Loser, K. et al. 2006. Epidermal RANKL controls regulatory T cell numbers via activation of dendritic cells. *Nat. Med.* 12: 1372-1379.

## CHROMOSOMAL LOCATION

Genetic locus: TNFSF11 (human) mapping to 13q14.11.

## PRODUCT

RANKL (h): 293T Lysate represents a lysate of human RANKL transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

RANKL (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RANKL antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.