**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 NFκB and JNK pathways. RANK (receptor activator of NFκB) 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 TRAF 2, 5 and 6, and it is also necessary for stimulating NFκB activation. The ligand for this receptor, RANKL (also designated TRANCE 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**


**CHROMOSOMAL LOCATION**

Genetic locus: TNFRSF11A (human) mapping to 1q21.33; Tnfrsf11a (mouse) mapping to 1 E2.1.

**SOURCE**

RANK (H-300) is a rabbit polyclonal antibody raised against amino acids 317-616 of RANK of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

RANK (H-300) is recommended for detection of RANK of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RANK siRNA (h): sc-42986, RANK siRNA (m): sc-42981, RANK shRNA Plasmid (h): sc-42980-SH, RANK shRNA Plasmid (m): sc-42981-SH, RANK shRNA (h) Lentiviral Particles: sc-42986-V and RANK shRNA (m) Lentiviral Particles: sc-42981-V.

Molecular Weight (predicted) of RANK: 66 kDa.

Molecular Weight (observed) of RANK: 82-90 kDa.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

<table>
<thead>
<tr>
<th>RANK (H-300): sc-9072</th>
<th>Western blot analysis of RANK expression in non-transfected: sc-117752 (A) and mouse RANK transfected: sc-122962 (B) 293T whole cell lysates.</th>
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<tbody>
<tr>
<td>RANK (H-300): sc-9072</td>
<td>Immunofluorescence staining of melanin-fixed SJRH30 cells showing membrane localization (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human small intestine tissue showing membrane and cytoplasmic staining of glandular cells. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).</td>
</tr>
</tbody>
</table>

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

Try **RANK (H-7): sc-374360** or **RANK (B-8): sc-390655**, our highly recommended monoclonal alternatives to RANK (H-300). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **RANK (H-7): sc-374360**.