

## DESCRIPTION

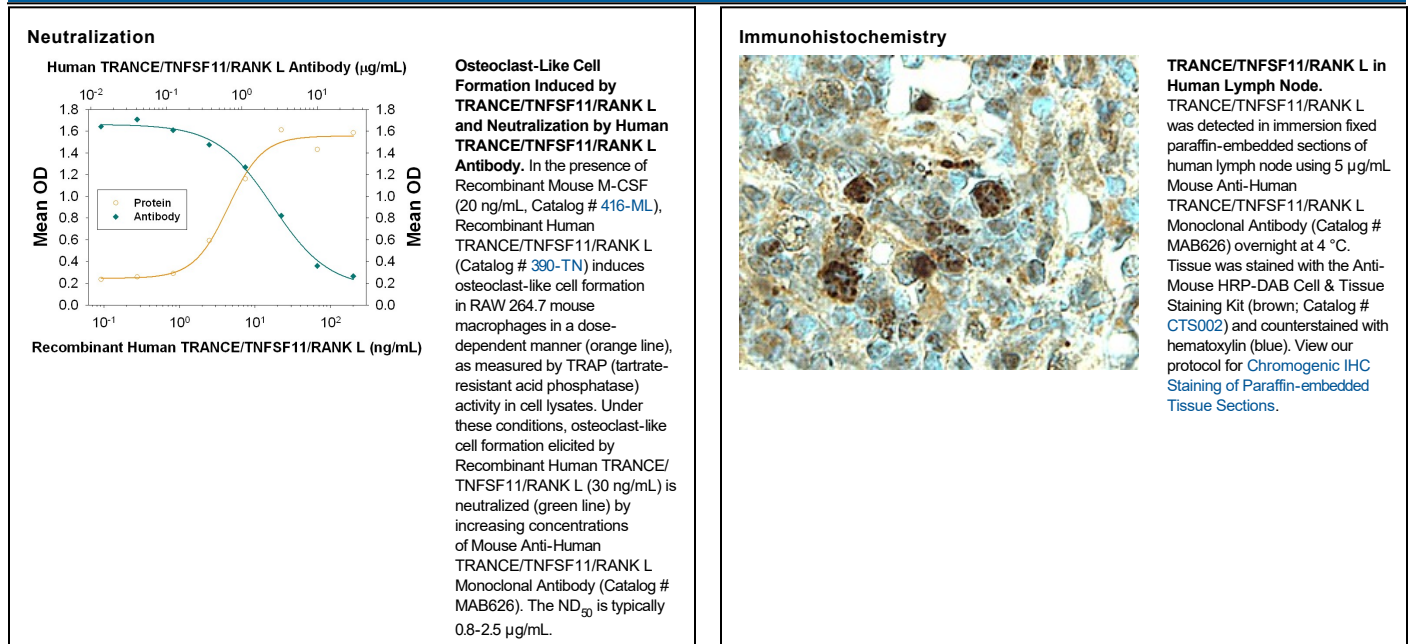
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRANCE/TNFSF11/RANK L in direct ELISAs. No cross-reactivity with recombinant mouse TRANCE is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 70525
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human TRANCE/TNFSF11/RANK L Gly136-Asp317 (Ala194Gly) Accession # O14788
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>Neutralization</b>		Measured by its ability to neutralize TRANCE/TNFSF11/RANK L-induced osteoclast-like cell formation in RAW 264.7 mouse macrophages. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.8-2.5 µg/mL in the presence of 30 ng/mL Recombinant Human TRANCE/TNFSF11/RANK L.

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

TNF-related activation-induced cytokine (TRANCE; also RANKL, OPGL, and ODF) is a 35 kDa (predicted) type II transmembrane glycoprotein and member of the TNF cytokine family. Human TRANCE is 317 amino acids (aa) in length and contains a 47 aa cytoplasmic region, a 21 aa transmembrane region, and a 249 extracellular domain (ECD), which contains two potential sites of N-linked glycosylation. Splicing variants produce three isoforms for human TRANCE. Isoform 1 is the standard form. In isoform 2 lacks aa 1-73, and isoform 3 lacks aa 1-47. TRANCE is expressed highest in the peripheral lymph nodes and weaker in the spleen, peripheral blood leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach, and thyroid. TRANCE plays a role in osteoclast differentiation and activation.