

DESCRIPTION

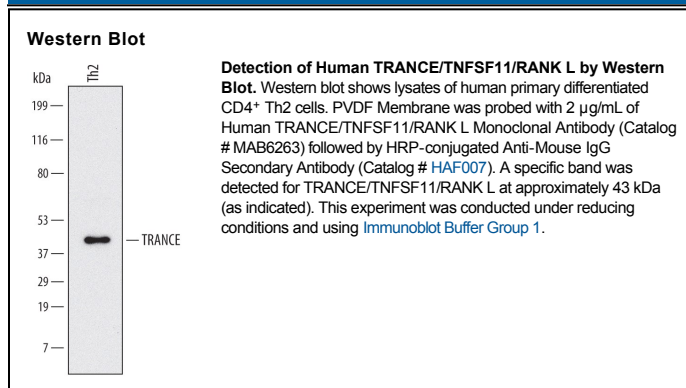
Species Reactivity	Human/Mouse
Specificity	Detects human TRANCE/TNFSF11/RANK L in direct ELISAs and Western blots. In direct ELISAs and Western blots, 100% cross-reactivity with recombinant mouse (rm) TRANCE and approximately 25% cross-reactivity with recombinant human (rh) LIGHT is observed. No cross-reactivity with rh4-1BB Ligand, rhAPRIL, rhBAFF, rhEDA, rhEDA-A2, rhFas Ligand, rhGITR Ligand, rhOX40 Ligand, rhTNF- α , rhTRAIL, rhTWEAK, or rhVEGI is observed.
Source	Monoclonal Mouse IgG ₃ Clone # 685809
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TRANCE/TNFSF11/RANK L Gly64-Asp245 Accession # AAC51762
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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
Western Blot	2 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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, aa corresponding to 1-73 in isoform 1 are missing. In isoform 3, aa 1-47 are missing. Human TRANCE ECD is 83% identical to mouse TRANCE ECD. 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.