

Human TRANCE/TNFSF11/RANK L Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF626

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TRANCE in Western blots. In this format, approximately 30% cross-reactivity with recombinant mouse TRANCE is observe
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human TRANCE Gln73-Asp317 (Ala194Gly) Accession # O14788
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
APPLICATIONS	
Please Note: Optimal diluti	ons should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.
	Recommended Sample Concentration
Western Blot	0.1 μg/mL Recombinant Human TRANCE/TNFSF11/RANK L (Truncated) (Catalog # 390-TN)
PREPARATION AND	STORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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

RANK Ligand (receptor activator of NF-kB ligand [RANKL], also called TNF-related activation-induced cytokines (TRANCE), osteoprotegerin ligand [OPGL], and osteoclast differentiation factor [ODF]), is a member of the tumor necrosis factor (TNF) family. RANK Ligand was originally identified as an immediate early gene upregulated by T cell receptor stimulation. The human RANK Ligand cDNA encodes a type II transmembrane protein of 317 amino acids with a predicted cytoplasmic domain of 47 amino acids, a 21 amino acids transmembrane region, and an extracellular domain of 249 amino acids. The extracellular domain contains two potential N-linked glycosylation sites. Mouse and human RANK Ligand share 85% amino acid identity. RANK Ligand is primarily expressed in T cells and T cell rich organs, such as thymus and lymph nodes. The multi-functions of RANK Ligand include induction of activation of the c-jun N-terminal kinase, enhancement of T cell growth and dendritic cell function, induction of osteoclastogenesis, and lymph node organogenesis. RANK is the cell surface signaling receptor of RANK Ligand. RANK has been shown to undergo receptor clustering during signal transduction. Osteoprotegerin, a soluble member of the TNF receptor family which binds RANK Ligand, is a naturally occurring decoy receptor that counterbalances the effects of RANK Ligand.

References:

- 1. Wong, B.R. et al. (1997) J. Biol. Chem. 272:25190.
- 2. Anderson, D.M. et al. (1997) Nature 390:175.
- 3. Nakagawa, N. et al. (1998) Biochem. Biophys. Res. Commun. 245:382.
- 4. Kong, Y-Y. et al. (1999) Nature 397:315.

