RANK Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit	UniProt ID: #Q9Y6Q6	Entrez-Gene Id: 8792
Product Usage Information		Application Western Blotting	33		Dilution 1:1000	0,32
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		RANK Antibody detects endogenous levels of RANK protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of RANK. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		RANK (receptor activator of NF-kB) is a member of the tumor necrosis factor (TNF) receptor subfamily that is activated by its ligand, RANKL (TRANCE/OPGL/ODF), to promote survival of dendritic cells and differentiation of osteoclasts (1-4). Although RANK is widely expressed, its cell surface expression may be more restricted to dendritic cells and foreskin fibroblasts (1). RANK contains a 383-amino acid intracellular domain that associates with specific members of the TRAF family to NF-kB and JNK activation (1,5). RANKL/RANK signaling may also lead to survival signaling through activation of the Akt pathway and an upregulation of survival proteins, including Bcl-xL (2,6). RANK signaling has been implicated as a potential therapeutic to inhibit bone loss and arthritis (7,8).				
Background References		 Anderson, D.M. et al. (1997) Nature 390, 175-9. Wong, B.R. et al. (1997) J. Exp. Med. 186, 2075-80. Lacey, D.L. et al. (1998) Cell 93, 165-76. Yasuda, H. et al. (1998) Proc. Natl. Acad. Sci. USA 95, 3597-602. Darnay, B.G. et al. (1998) J. Biol. Chem. 273, 20551-5. Wong, B.R. et al. (1999) Mol. Cell 4, 1041-9. Walsh, M.C. and Choi, Y. Cytokine Growth Factor Rev. 14, 251-63. Nakashima, T. et al. (2003) Curr. Opin. Rheumatol. 15, 280-7. 				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat

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