

**bs-0747R****[ Primary Antibody ]****RANKL/CD254 Rabbit pAb****Bioss**  
**ANTIBODIES**

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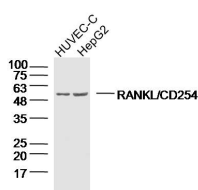
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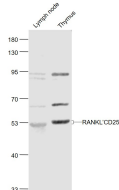
400-901-9800

**— DATASHEET —**

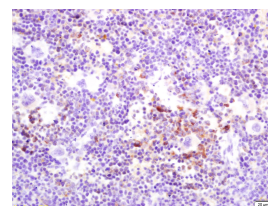
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500) <b>Flow-Cyt</b> (1µg/Test )
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Human, Mouse (predicted: Rat, Dog)
<b>GeneID:</b> 8600	<b>SWISS:</b> O14788	
<b>Target:</b> RANKL/CD254		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human OPGL: 210-317/317.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 35 kDa
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		<b>Subcellular Location:</b> Secreted ,Cell membrane
<b>Background:</b> This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found. [provided by RefSeq, Jul 2008].		

**— VALIDATION IMAGES —**

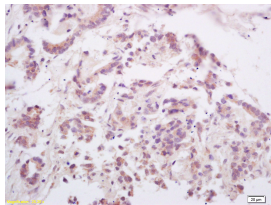
Sample: HUVEC-C Cell (Human) Lysate at 40 ug  
HepG2 Cell (Human) Lysate at 40 ug  
Primary: Anti-RANKL/CD254 (bs-0747R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 35kD  
Observed band size: 56kD



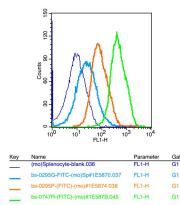
Sample: Lymph node(Mouse) Lysate at 40 ug  
Thymus(Mouse) Lysate at 40 ug  
Primary: Anti-RANKL'CD254 (bs-0747R) at 1/500 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 37'50 kD  
Observed band size: 50 kD



Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-OPGL/RANKL/ODF Polyclonal Antibody, Unconjugated(bs-0747R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-OPGL/RANKL/ODF Polyclonal Antibody, Unconjugated(bs-0747R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: mouse splenocytes(blue) Isotype Control Antibody: Rabbit IgG(orange); Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA; Primary Antibody Dilution: 1μl in 100 μL1X PBS containing 0.5% BSA(green).

## — SELECTED CITATIONS —

- **[IF=13.273]** Xinkun Shen. et al. Improvement of aqueous stability and anti-osteoporosis properties of Zn-MOF coatings on titanium implants by hydrophobic raloxifene. Chem Eng J. 2021 Oct;:133094 WB ;Mouse. 10.1016/j.cej.2021.133094
- **[IF=8.755]** Qianqian Guo. et al. Conditioned media of deer antler stem cells accelerate regeneration of alveolar bone defects in rats. CELL PROLIFERAT. 2023 Mar;:e13454 IHC ;Deer,Rat. 36929672
- **[IF=8]** Yuichiro Ukon. et al. Cellular senescence by loss of Men1 in osteoblasts is critical for age-related osteoporosis. AGING CELL. 2024 Jun;:e14254 IHC ;Mouse. 10.1111/accel.14254
- **[IF=6.8]** Lihua Feng. et al. Maternal F-53B exposure during pregnancy and lactation affects bone growth and development in male offspring. ECOTOX ENVIRON SAFE. 2024 Jul;279:116501 WB ;Mouse. 38805831
- **[IF=5.923]** Nanami Nakamura. et al. Possible Action of Olaparib for Preventing Invasion of Oral Squamous Cell Carcinoma In Vitro and In Vivo. Int J Mol Sci. 2022 Jan;23(5):2527 WB ;Mouse. 10.3390/ijms23052527