

Anti-RANKL/TNFSF11/CD254 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Dog)
Molecular Weight:	Theoretical: 35 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-OPGL/RANKL/ODF Polyclonal Antibody, Unconjugated (TMAB-01609) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

2. Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-OPGL/RANKL/ODF Polyclonal Antibody, Unconjugated (TMAB-01609) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

3. Blank control: mouse splenocytes (blue)

Isotype Control Antibody: Rabbit IgG (orange);

Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue),

Verified Activity: Dilution: 1:100 in 1 X PBS containing 0.5% BSA;

Primary Antibody Dilution: 1 µL in 100 µL 1X PBS containing 0.5% BSA (green).

4. Sample:

HUVEC-C Cell (Human) Lysate at 40 µg

HepG2 Cell (Human) Lysate at 40 µg

Primary: Anti-RANKL/CD254 (TMAB-01609) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 35 kDa

Observed band size: 56 kDa

5. Sample:

Lymphnode (Mouse) Lysate at 40 µg

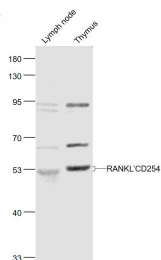
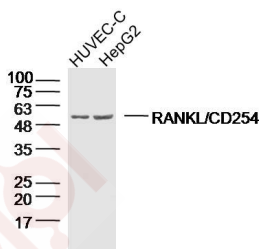
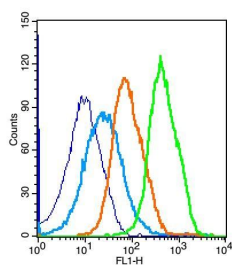
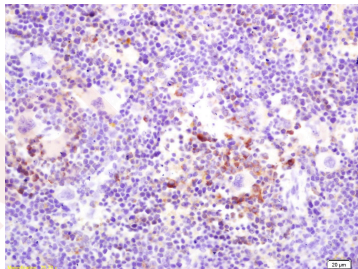
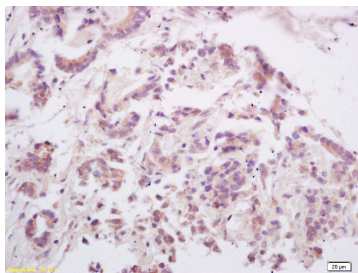
Thymus (Mouse) Lysate at 40 µg

Primary: Anti-RANKL/CD254 (TMAB-01609) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 37/50 kDa

Observed band size: 50 kDa



Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human OPGL
Antigen Species:	Human
Gene ID:	8600
Uniprot ID:	O14788
Synonyms:	OPGL;ODF;tumor necrosis factor ligand superfamily member 11;CD254;Receptor activator of nuclear factor κ -B ligand;TNFSF11;Osteoclast differentiation factor;RANK L;Receptor activator of nuclear factor kappa-B ligand
Biology Area:	Thrombosis,Regulatory T Cells,TNF Superfamily

Research Background

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].

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