

AM33178PU-N**Polyclonal Antibody to CD254 / RANKL (287-304) - Purified****Alternate names:**

ODF, OPGL, Osteoclast differentiation factor, Osteoprotegerin ligand, RANK Ligand, RANKL, Receptor activator of nuclear factor kappa B ligand, TNF-related activation-induced cytokine, TNFSF11, TRANCE, Tumor necrosis factor ligand superfamily member 11

Quantity:

0.1 mg

Background:

RANKL is 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. There are three isoforms of RANKL. Human RANKL is a soluble 20 kDa polypeptide, comprising the TNF homologous region of RANKL (176 amino acid residues). 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 that this protein may have a role in the regulation of cell apoptosis. RANKL deficient mice show severe osteoporosis and complete absence of osteoclasts as a result of lack of osteogenesis.

Uniprot ID:[O14788](#)**NCBI:**[NP_003692](#)**GeneID:**[8600](#)**Host / Isotype:**

Rabbit / IgG

Immunogen:

Human sRANKL synthetic Peptide (EEISIEVSNPSLLDPDQD)
Genename: TNFSF11

Format:

State: Lyophilized purified IgG fraction from Serum
Purification: Protein G Chromatography
Buffer System: 50 mM TRIS pH 7.4
Reconstitution: Restore in aqua bidest to 1 mg/ml

Applications:

ELISA.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Recognizes Human sRANKL (soluble form). Other species not tested.

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.