## For Research Use Only

## TNFSF11/RANKL Polyclonal antibody

Catalog Number:23408-1-AP 71 Publications

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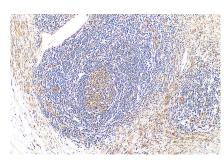


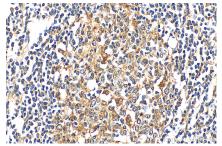
## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 23408-1-AP BC074890 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 550 ug/ml by 8600 WB: 1:500-1:1000 Nanodrop: IHC: 1:50-1:500 UNIPROT ID: Source 014788 Rabbit Full Name: Isotype tumor necrosis factor (ligand) superfamily, member 11 lgG Immunogen Catalog Number: Calculated MW: AG19975 317 aa. 35 kDa **Observed MW:** 20-30 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, ELISA WB: Raji cells, **Cited Applications:** IHC : human stomach cancer tissue, human colon WB, IHC, IF tissue, human heart tissue Species Specificity: human Cited Species: human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 TNFSF11 also known as RANKL, is a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for **Background Information** osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. RANKL is a polypeptide of 217 amino acids that exerts its biological activity both in a transmembrane form of about 40-45 kDa and in soluble one of 31 kDa (PMID: 15308315). The membrane-bound RANKL (mRANKL) is cleaved into a sRANKL by the metalloprotease-disintegrin TNF-alpha convertase (TACE) or a related metalloprotease (MP). RANKL induces osteoclast formation through its receptor, RANK, which transduces signals by recruiting adaptor molecules, such as the TNF receptor-associated factor (TRAF) family of proteins. RANKL was shown to be a dentritic 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. RANKL was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptorassociated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Notable Publications Author Pubmed ID Journal Application Yi Yu WB 34585393 J Periodontol Yuan-Wei Zhang J Orthop Translat IHC 36196151 Xiaohui Zhao 32980481 J Ethnopharmacol WB Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage \*\*\* 20ul sizes contain 0.1% BSA This product is exclusively available under Proteintech For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com Group brand and is not available to purchase from any

other manufacturer.

## Selected Validation Data







Various lysates were subjected to SDS PAGE followed by western blot with 23408-1-AP (RANKL antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 23408-1-AP (RANKL antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 23408-1-AP (RANKL antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).