

Product datasheet for **AP01114PU-S**

RANKL (TNFSF11) Goat Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ELISA, WB |
| Recommended Dilution: | ELISA: Sandwich: To detect hsRANKL by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. In conjunction with Biotinylated Anti-Human sRANKL as a detection antibody, it allows the detection of at least 0.2 - 0.4 ng/well of recombinant hsRANKL. Indirect: To detect hsRANKL by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. In conjunction with compatible secondary reagents, it allows the detection of at least 0.2 - 0.4 ng/well of recombinant hsRANKL. Western blot: To detect hsRANKL by Western blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hsRANKL is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions. |
| Reactivity: | Human |
| Host: | Goat |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | E. coli derived (highly pure; > 98 %) recombinant human sRANKL |
| Specificity: | This antibody detects RANKL. |
| Formulation: | PBS, pH 7.2 State: Aff - Purified State: Sterile filtered lyophilized Ig fraction |
| Reconstitution Method: | Centrifuge vial prior to opening. Restore in sterile water to a concentration of 0.1 - 1.0 mg/ml. |
| Purification: | Immunoaffinity chromatography |
| Conjugation: | Unconjugated |



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| Storage: | Upon receipt, store the lyophilized antibody at -20 °C. Following reconstitution it is stable for two weeks at 2 - 8 °C. Frozen aliquots are stable for 6 months when stored at -20 °C. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Predicted Protein Size: | Approx. 150 kDa |
| Gene Name: | tumor necrosis factor superfamily member 11 |
| Database Link: | Entrez Gene 8600 Human Q14788 |
| 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. |
| Synonyms: | OPGL, RANK Ligand, RANKL, TRANCE, TNFSF11, ODF |