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Product datasheet for PP1086P2

RANKL (TNFSF11) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FN, IHC, WB
Recommended Dilution:	**Neutralization.** **Immunohistochemistry on Formalin-Fixed, Parrafin-embedded Sections:** 0.25 µg/ml with an overnight incubation at 4°C. Staining of Human metastatic carcinoma of lymph node from breast tissue. An HRP-labeled polymer detection system was used with DAB chromogen. Heat induced antigen retrieval with a pH 6.0 Sodium Citrate buffer is recommended. **Sandwich ELISA:** To detect Human sRANKL by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5-2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with Biotinylated anti-Human sRANKL (PP1086B1 or PP1086B2) as a Detection antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human sRANKL. **Western blot:** To detect Human sRANKL 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:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (>98%) E.coli derived recombinant Human sRANKL (*Cat.-No* PA122)
Specificity:	This antibody reacts with soluble RANK Ligand.
Formulation:	PBS, pH 7.2 without preservatives State: Aff - Purified State: Lyophilized (sterile filtered) purified Ig fraction
Reconstitution Method:	Restore in sterile water to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography employing immobilized Human sRANK Ligand matrix.
Conjugation:	Unconjugated

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.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor necrosis factor superfamily member 11
Database Link:	Entrez Gene 8600 Human O14788
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 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. 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 osteoporesis and complete absence of osteoclasts as a result of lack of osteogenesis.
Synonyms:	OPGL, RANK Ligand, RANKL, TRANCE, TNFSF11, ODF
Note:	Centrifuge vial prior to opening!