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Recombinant Human sRANK Receptor
Catalog # PBG10425

Specification

Recombinant Human sRANK Receptor - Product Information

Recombinant Human sRANK Receptor - Additional Information

Description
RANKL and RANK are members of the TNF superfamily of ligands and receptors that play an important role in the regulation of specific immunity and bone turnover. RANK (receptor) was originally identified as a dendritic-cell-membrane protein, which by interacting with RANKL augments the ability of dendritic cells to stimulate naïve T cell proliferation and to promote the survival of RANK + T cells. RANK is also expressed in a variety of tissues including skeletal muscle, thymus, liver, colon, small intestine and adrenal gland. The RANK/RANKL interaction is important in the regulation of osteoclastogenesis and in dendritic-cell-mediated T cell immune responses. Impairments in RANK signaling have been implicated in the induction of expansile osteolysis and Paget disease of bone (PDB2). Recombinant human sRANK receptor is a 19.3 kDa polypeptide containing the TNFR homologous cysteine rich portion of the extracellular domain of RANK receptor (175 amino acid residues).

BiologicalActivity
Determined by its ability to inhibit sRANKL induced NFkappaB in RAW264.7 cells in the absence of any cross-linking. The expected ED50 for this effect in the presence of 15ng/ml of recombinant sRANKL, is 30-50 ng/ml.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human sRANK Receptor is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human sRANK Receptor - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human sRANK Receptor - Images