

Product datasheet

Recombinant human sRANKL protein (Animal Free) ab217456

Description

Product name	Recombinant human sRANKL protein (Animal Free)
Biological activity	Determined by its dose-dependent ability to induce reporter gene in HT-29 NF-κB Luc reporter cells.
Purity	> 98 % SDS-PAGE. assessed also by HPLC
Expression system	Escherichia coli
Accession	<u>O14788</u>
Protein length	Protein fragment
Animal free	Yes
Nature	Recombinant
Species	Human
Sequence	MEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHK VSLSSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANIC FRHHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGGST KYWSGNSEFHFYSINVGGFFKLRSGEESISIEVSNPSLLDP DQDATYFGAFKVRDID
Predicted molecular weight	20 kDa
Amino acids	143 to 317

Specifications

Our **Abpromise guarantee** covers the use of **ab217456** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE HPLC
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Lyophilised from a sterile filtered solution. Centrifuge the vial prior to opening. Reconstitute in Water to a concentration of 0.1 - 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20C to -80C
General Info	
Function	Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.
Tissue specificity	Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid.
Involvement in disease	Defects in TNFSF11 are the cause of osteopetrosis autosomal recessive type 2 (OPTB2) [MIM:259710]; also known as osteoclast-poor osteopetrosis. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of non-functional osteoclasts. OPTB2 is characterized by paucity of osteoclasts, suggesting a molecular defect in osteoclast development.
Sequence similarities	Belongs to the tumor necrosis factor family.
Post-translational modifications	The soluble form of isoform 1 derives from the membrane form by proteolytic processing (By similarity). The cleavage may be catalyzed by ADAM17.
Cellular localization	Cytoplasm; Secreted and Cell membrane.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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