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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet for 010-001-C22**rMouse RANKL Protein****Overview**

Description:	RANKL Mouse Recombinant Protein - 010-001-C22
Item No.:	010-001-C22
Size:	10 µg
Applications:	SDS-PAGE
Origin:	Mouse

Product Details

Background:	The secreted cytokine RANKL (Receptor Activator of Nuclear factor kappa-B Ligand) is critically involved in osteoclastic differentiation and activation and in the regulation of specific immunity. RANKL exists as a homotrimer, is glycosylated, and occurs in 3 forms: cell-bound RANKL, which is expressed by osteoblast lineage cells, soluble RANKL (sRANKL), which is expressed by activated T lymphocytes, and a truncated ectodomain form derived from the cell-bound RANK Ligand, which is enzymatically processed by TACE (TNF-alpha converting enzyme (TACE; ADAM-17)). All three forms stimulate their specific receptor, RANK, which is located on osteoclastic and dendritic cells. RANKL binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. RANKL augments the ability of dendritic cells to stimulate naive T-cell proliferation. It 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. It may also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. Deficiency in Tnfsf11 results in failure to form lobulo-alveolar mammary structures during pregnancy, resulting in death of newborns. Trance-deficient mice show severe osteopetrosis. RANKL is highly expressed in thymus and lymph nodes, but not in non-lymphoid tissues and is abundantly expressed in T-cells but not in B-cells. A high level expression is also seen in the trabecular bone and lung. Recombinant Mouse soluble RANKL is approximately 19.9 kDa and contains 174 amino acids.
Synonyms:	TNF-related activation-induced cytokine, TRANCE, Tumor necrosis factor ligand superfamily member 11, TNFRSF11, Osteoprotegerin ligand, OPG, Osteoclast differentiation factor, ODF, CD254
Species of Origin:	Mouse
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	Tnfsf11
Purity/Specificity:	Purity was determined to be greater than 95% as determined by analysis by RP-HPLC and by reducing and non-reducing SDS-PAGE.
Relevant Links:	<ul style="list-style-type: none">• NCBI• UniProtKB - O35235

Application Details

Tested Applications:	SDS-PAGE
Application Note:	RANKL protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-RANKL in immunological assays. Formulation of buffer: 10mM Sodium Phosphate, 20mM Sodium Chloride, pH: 7.5.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Biological Activity: Mouse RANKL has full biological activity when compared to a standard. The ED50, as measured by the dose-dependent induction of TNF- α production in RAW 264.7 cells, is 50 ng/ml. Endotoxin Level: Measured by LAL is 0.148 EU/ μ g protein.

Formulation

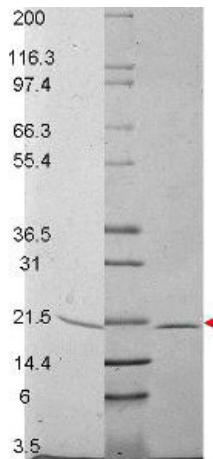
Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	See application note.
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE shows band corresponding to RANKL (1 μ g) in lane 1 (unreduced) and lane 3 (reduced, arrowhead). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.