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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-RANK-L [3K7F5] Standard Size Ab04140-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 3K7F5

Alternative Name(s) of Target: CD254; TRANCE; RANKL; PAE30; ODF; OPGL; Tumor necrosis factor ligand superfamily member 11; Osteoclast differentiation factor; Osteoprotegerin ligand; Receptor activator of nuclear factor kappa-B ligand; TNF-related activation-induced cytokine

UniProt Accession Number of Target Protein: O14788

Published Application(s): in vivo

Published Species Reactivity: Human

Immunogen: The original antibody was generated by panning a phage display library against human sRANKL.

Specificity: The antibody is specific for human-RANK-L. RANKL is a tumor necrosis factor related protein that binds to, and activates, the TNF receptor related protein Receptor Activator of NF-κB (RANK). RANKL acts as the key cytokine that regulates osteoclast differentiation and activation during normal bone remodeling and during disease

Application Notes: The affinity of the original format of the antibody is 0.17×10^{-12} nM, as measured by PAE technology. RAW264.7, a murine macrophage cell line that can be induced by RANKL to differentiate into osteoclast-like cells, was used in a TRAP test. In the TRAP test, the original antibody or the Fab fragment were able to neutralize the stimulating effect of RANKL on osteoclast formation from a RAW 264.7 culture. Further, the addition of the original format of the antibody or the Fab fragment inhibited osteoclast differentiation of the RAW cell in a dose-dependent manner. The affinity of the original format and the Fab fragment of the antibody was measured by the Scatchard method (affinity = 8.7 and 6.5 pM). The original antibody and the Fab fragment could significantly increase the bone densities and bone calcium content in a dose-dependent manner, in in vivo experiments (WO2011116527A1).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.