

Datasheet for ABIN500805
anti-RANKL antibody (Center)



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Overview

Quantity:	0.1 mg
Target:	RANKL (TNFSF11)
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RANKL antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	sRANK-L antibody was raised against a 14 amino acid peptide from near the center of Human sRANK-L.
Isotype:	IgG
Specificity:	This antibody detects CD254 / RANKL. It will recognize both the soluble form and the uncleaved transmembrane form of RANK-L.
Cross-Reactivity (Details):	Species reactivity (tested): Human, Mouse and Rat.
Purification:	Immunoaffinity Chromatography

Target Details

Target:	RANKL (TNFSF11)
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Target Details

Alternative Name:	CD254 / RANKL (TNFSF11 Products)
Background:	<p>The receptor activator of NF-kappaB ligand (RANK-L) is a recently discovered member of the TNF-ligand family involved in the regulation of the T cell-dependent immune response, lymph node organogenesis and bone formation. RANK-L exists as both a normal, transmembrane form and a truncated, soluble form (sRANK-L), both of which can stimulate the receptor. Activation of T cells, such as by treatment with interleukin-7, induces RANK-L production and leads to an increase of osteoclast formation and bone loss. Finally, sRANK-L can activate the antiapoptotic kinase Akt through a signaling complex involving Src kinase and TRAF6, suggesting sRANK-L may also play a role in regulating apoptosis. Synonyms: ODF, OPGL, Osteoclast differentiation factor, Osteoprotegerin ligand, RANK Ligand, RANKL, Receptor activator of nuclear factor kappa B ligand, TNF-related activation-induced cytokine, TNFSF11, TRANCE, Tumor necrosis factor ligand superfamily member 11</p>
Gene ID:	8600
NCBI Accession:	NP_003692
Pathways:	NF-kappaB Signaling

Application Details

Application Notes:	<p>ELISA. Western blot: 0.25 - 0.5 µg/mL. Immunohistochemistry on paraffin sections.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Restrictions:	For Research Use only

Handling

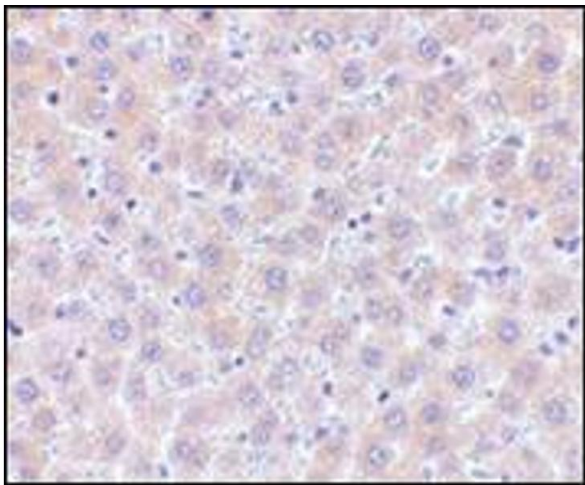
Concentration:	1.0 mg/mL
Buffer:	PBS, 0.02 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in: Kirschneck, Küchler, Wolf, Spanier, Proff, Schröder: "Effects of the Highly COX-2-Selective Analgesic NSAID Etoricoxib on Human Periodontal Ligament Fibroblasts during Compressive Orthodontic Mechanical Strain." in: **Mediators of inflammation**, Vol. 2019, pp. 2514956, (2019) ([PubMed](#)).

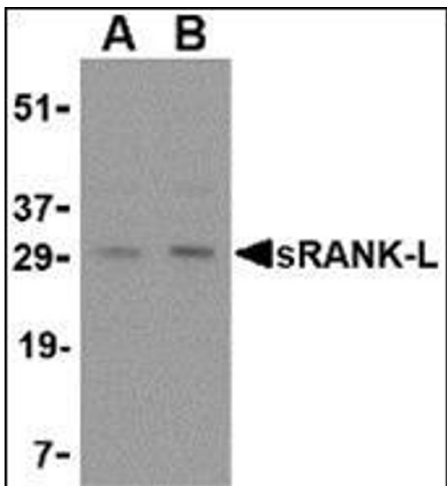
Ullrich, Schröder, Jantsch, Spanier, Proff, Kirschneck: "The role of mechanotransduction versus hypoxia during simulated orthodontic compressive strain-an in vitro study of human periodontal ligament fibroblasts." in: **International journal of oral science**, Vol. 11, Issue 4, pp. 33, (2019) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of sRANK-L in human liver tissue with this product at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of sRANK-L in rat liver tissue lysate with this product at (A) 0.25 and (B) 0.5 µg/ml.