

Anti-sRANKL antibody ab62516

★★★★★ [6 Abreviews](#) [19 References](#) [4 Images](#)

Overview

Product name	Anti-sRANKL antibody
Description	Rabbit polyclonal to sRANKL
Host species	Rabbit
Specificity	IHC-P has not been validated for use with mouse and rat.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide (Human) of 14 amino acids from near the centre of sRANKL
Positive control	WB: A431, K562 and HeLa cell lysates. Mouse kidney and skin tissue lysates. Rat liver tissue lysate. IHC-P: Human liver tissue.
General notes	<p>This antibody will recognize both the soluble form and the uncleaved transmembrane form of RANK-L.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab62516 in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★★ (2)	Use a concentration of 0.25 - 0.5 µg/ml. Detects a band of approximately 30 kDa (predicted molecular weight: 35 kDa).
IHC-P	★★★★★ (2)	Use a concentration of 5 µg/ml. Only validated for human samples.

Target

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.

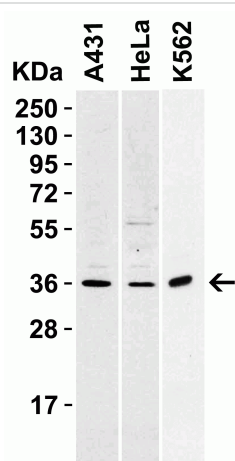
Post-translational modifications

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.

Images



Western blot - Anti-sRANKL antibody (ab62516)

All lanes : Anti-sRANKL antibody (ab62516) at 1 µg/ml

Lane 1 : A431 cell lysate

Lane 2 : HeLa cell lysate

Lane 3 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell lysate

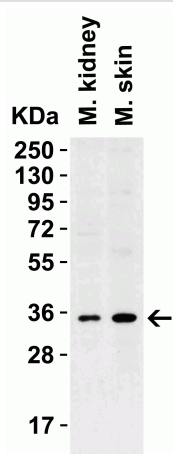
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 35 kDa

Observed band size: 36 kDa



Western blot - Anti-sRANKL antibody (ab62516)

All lanes : Anti-sRANKL antibody (ab62516) at 2 µg/ml

Lane 1 : Mouse kidney tissue lysate

Lane 2 : Mouse skin tissue lysate

Lysates/proteins at 15 µg per lane.

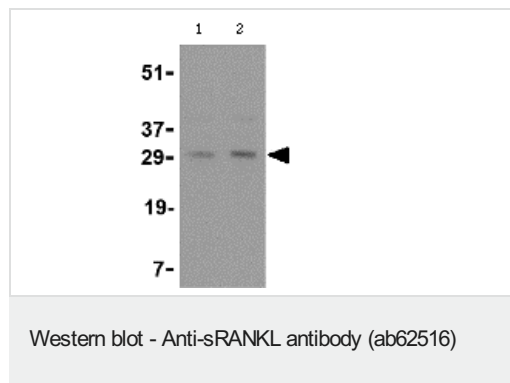
Secondary

All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 35 kDa

Observed band size: 36 kDa

Blocking buffer: 5% NFDM/TBST.



Lane 1 : Anti-sRANKL antibody (ab62516) at 0.25 µg/ml

Lane 2 : Anti-sRANKL antibody (ab62516) at 0.5 µg/ml

All lanes : Rat liver tissue lysate

Lysates/proteins at 15 µg per lane.

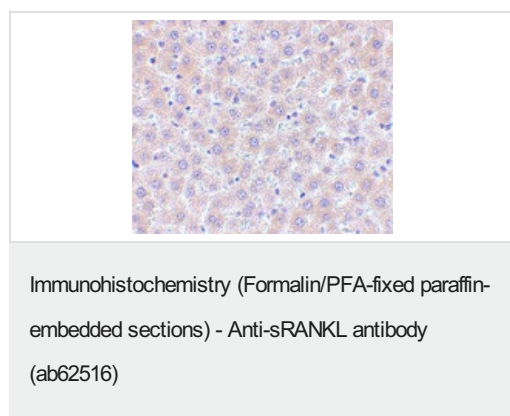
Secondary

All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 35 kDa

Observed band size: 30 kDa

Blocking buffer: 5% NFDM/TBST.



Immunohistochemical analysis of paraffin-embedded human liver tissue using ab62516 at 5µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1h at RT. Antigen retrieval was by heat mediation with a citrate buffer (pH 6.0). Samples were incubated with primary antibody overnight at 4°C. Goat anti-rabbit IgG H&L (HRP) at 1/250 dilution was used as a secondary. Counter stained with Hematoxylin.

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

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