

Datasheet for ABIN6149337  
**anti-RANKL antibody (AA 78-317)**



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2 Images

## Overview

Quantity:	100 µL
Target:	RANKL (TNFSF11)
Binding Specificity:	AA 78-317
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RANKL antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 78-317 of human RANKL (NP_003692.1).
Sequence:	RISEDGTHCI YRILRLHENA DFQDTTLESQ DTKLIPDSCR RIKQAFQGAV QKELQHIVGS QHIRAEKAMV DGSWLDLAKR SKLEAQPFah LTINATDIPS GSHKVSLSSW YHDRGWAKIS NMTFSNGKLI VNQDGFYYLY ANICFRHHET SGDLATEYLQ LMVYVTKTSI KIPSSHTLMK GGSTKYWSGN SEHFYYSINV GGFFKLRSGE EISIEVSNPS LLDPDQDATY FGAFKVRDID
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	RANKL (TNFSF11)
Alternative Name:	TNFSF11 ( <a href="#">TNFSF11 Products</a> )
Background:	<p>This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been</p> <p>found.,TNFSF11,CD254,ODF,OPGL,OPTB2,RANKL,TNLG6B,TRANCE,hRANKL2,sOdf,Immunology &amp; Inflammation,CD markers,Cytokines,TNF,Cell Intrinsic Innate Immunity Signaling Pathway,Cardiovascular,TNFSF11</p>
Molecular Weight:	27 kDa/30 kDa/35 kDa
Gene ID:	8600
UniProt:	<a href="#">O14788</a>
Pathways:	<a href="#">NF-kappaB Signaling</a>

## Application Details

Application Notes:	WB,1:500 - 1:1000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

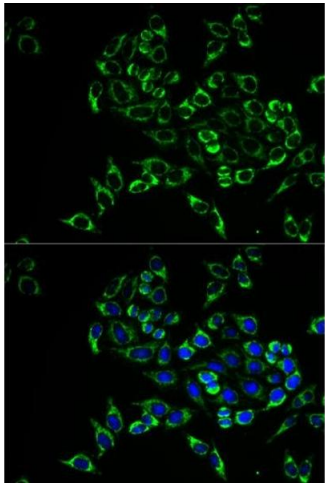
Handling

should be handled by trained staff only.

Storage: -20 °C

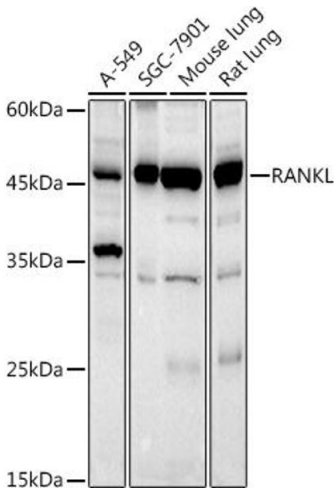
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



**Immunofluorescence**

**Image 1.** Immunofluorescence analysis of HeLa cells using RANKL antibody (ABIN6127581, ABIN6149337, ABIN6149338 and ABIN6217616). Blue: DAPI for nuclear staining.



**Western Blotting**

**Image 2.** Western blot analysis of extracts of various cell lines, using RANKL antibody (ABIN6127581, ABIN6149337, ABIN6149338 and ABIN6217616) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.