

## Product datasheet

# Anti-RANK antibody [EPR26196-15] - BSA and Azide free ab305234

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-RANK antibody [EPR26196-15] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR26196-15] to RANK - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	KO validation is still required when KO cell line or lysates become available.
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt (Intra), ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HT-29, SW480, HCT 116, C2C12, Mouse brain, Mouse thymus, K-562, RAW 264.7, Rat thymus, Rat spleen, K-562 non-membrane fraction, K-562 membrane fraction, PC-3 (fresh), MCF7 (fresh), PC-3 (frozen) and MCF7 (frozen) lysates
<b>General notes</b>	<p>ab305234 is the carrier-free version of <a href="#">ab305233</a></p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul>

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.20 Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR26196-15
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab305234 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		Use at an assay dependent concentration. Predicted molecular weight: 80 kDa.

**Application notes** Is unsuitable for Flow Cyt (Intra), ICC/IF, IHC-P or IP.

## Target

<b>Function</b>	Receptor for TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL-mediated osteoclastogenesis. Involved in the regulation of interactions between T-cells and dendritic cells.
<b>Tissue specificity</b>	Ubiquitous expression with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland.
<b>Involvement in disease</b>	<p>Defects in TNFRSF11A are the cause of familial expansile osteolysis (FEO) [MIM:174810]. FEO is a rare autosomal dominant bone disorder characterized by focal areas of increased bone remodeling. The osteolytic lesions develop usually in the long bones during early adulthood. FEO is often associated with early onset deafness and loss of dentition.</p> <p>Defects in TNFRSF11A are a cause of Paget disease of bone type 2 (PDB2) [MIM:602080]; also known as familial Paget disease of bone. PDB2 is a bone-remodeling disorder with clinical similarities to FEO. Unlike FEO, however, affected individuals have involvement of the axial skeleton with lesions in the spine, pelvis and skull.</p> <p>Defects in TNFRSF11A are the cause of osteopetrosis autosomal recessive type 7 (OPTB7) [MIM:612301]; also called osteoclast-poor osteopetrosis with hypogammaglobulinemia. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to</p>

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. OPTB7 is characterized by paucity of osteoclasts, suggesting a molecular defect in osteoclast development. OPTB7 is associated with hypogammaglobulinemia.

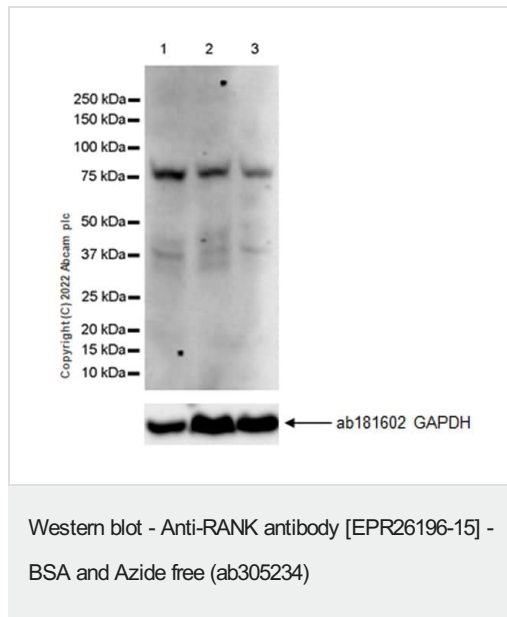
#### Sequence similarities

Contains 4 TNFR-Cys repeats.

#### Cellular localization

Membrane.

## Images



**All lanes :** Anti-RANK antibody [EPR26196-15] ([ab305233](#)) at 1/1000 dilution

**Lane 1 :** HT-29 (human colorectal adenocarcinoma epithelial cell) whole cell lysate 20  $\mu$ g

**Lane 2 :** SW480 (human colorectal adenocarcinoma epithelial cell) whole cell lysate 20  $\mu$ g

**Lane 3 :** HCT 116 (human colorectal carcinoma epithelial cell) whole cell lysate 20  $\mu$ g

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 80 kDa

**Observed band size:** 80 kDa

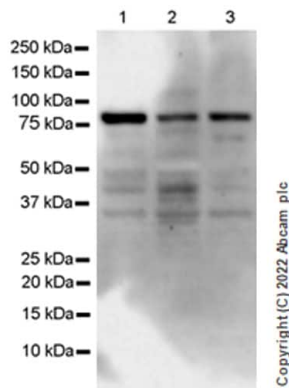
This data was developed using [ab305233](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST

Low expression: SW480, HCT 116 (PMID:33795653).

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 3 minutes



Western blot - Anti-RANK antibody [EPR26196-15] - BSA and Azide free (ab305234)

**All lanes** : Anti-RANK antibody [EPR26196-15] ([ab305233](#)) at 1/1000 dilution

**Lane 1** : C2C12 (mouse myoblast) whole cell lysate 20 µg

**Lane 2** : Mouse brain tissue lysate 20 µg

**Lane 3** : Mouse thymus tissue lysate 20 µg

### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution

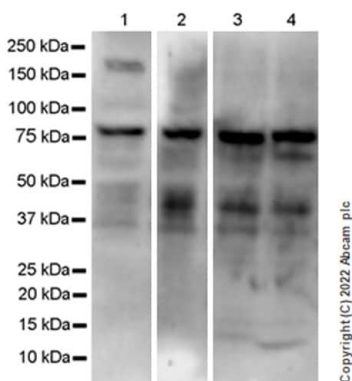
**Predicted band size:** 80 kDa

This data was developed using [ab305233](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFD/MTBST

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 3 minutes



Western blot - Anti-RANK antibody [EPR26196-15] - BSA and Azide free (ab305234)

**All lanes** : Anti-RANK antibody [EPR26196-15] ([ab305233](#)) at 1/1000 dilution

**Lane 1** : K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate 20 µg

**Lane 2** : RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate 20 µg

**Lane 3** : Rat thymus tissue lysate 20 µg

**Lane 4** : Rat spleen tissue lysate 20 µg

### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 80 kDa

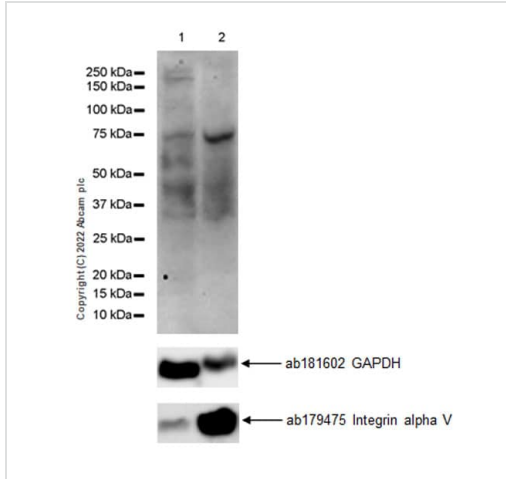
**Observed band size:** 80 kDa

This data was developed using [ab305233](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 3 minutes



Western blot - Anti-RANK antibody [EPR26196-15] - BSA and Azide free (ab305234)

**All lanes :** Anti-RANK antibody [EPR26196-15] ([ab305233](#)) at 1/1000 dilution

**Lane 1 :** K-562 (human chronic myelogenous leukemia lymphoblast) non-membrane fraction 20 µg

**Lane 2 :** K-562 membrane fraction 20 µg

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 80 kDa

**Observed band size:** 80 kDa

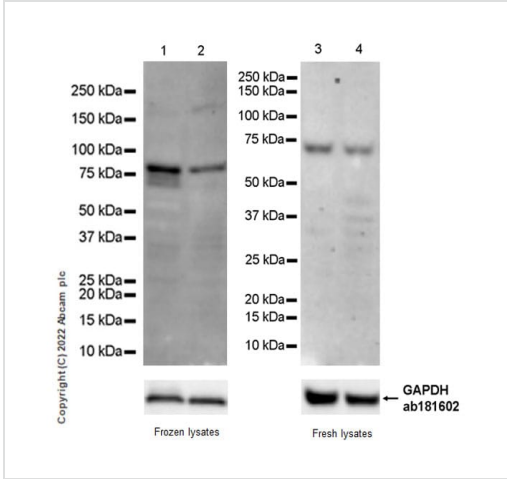
**Exposure time:** 3 minutes

This data was developed using [ab305233](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST

This blot was developed using a high sensitivity ECL substrate.

Exposure time: 3 minutes



Western blot - Anti-RANK antibody [EPR26196-15] - BSA and Azide free (ab305234)

**All lanes** : Anti-RANK antibody [EPR26196-15] (**ab305233**) at 1/1000 dilution

**Lanes 1 & 3** : PC-3 (human prostate adenocarcinoma epithelial cell) whole cell lysate 20 µg

**Lanes 2 & 4** : MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate 20 µg

### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20000 dilution

**Predicted band size:** 80 kDa

**Observed band size:** 80 kDa

This data was developed using **ab305233**, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDN/TBST

Low expression: MCF7 (PMID: 23696795).

Exposure time:

Lanes 1-2: 92 seconds;

Lanes 3-4: 180 seconds.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-RANK antibody [EPR26196-15] - BSA and Azide free (ab305234)

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

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