

Product datasheet

Anti-IL-18R1 antibody ab117432

3 Images

Overview

Product name	Anti-IL-18R1 antibody
Description	Rabbit polyclonal to IL-18R1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	<p>Reacts with: Human</p> <p>Predicted to work with: Chimpanzee, Macaque monkey, Gorilla, Orangutan </p>
Immunogen	<p>Synthetic peptide corresponding to Human IL-18R1 aa 500 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin.</p> <p>Database link: Q13478</p>
Positive control	<p>This antibody gave a positive signal in both Human Spleen and Lung tissue lysates as well as Hodgkin's Lymphoma (Human) Whole Cell Lysate. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal lung.</p>
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as 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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab117432** in the following tested applications.

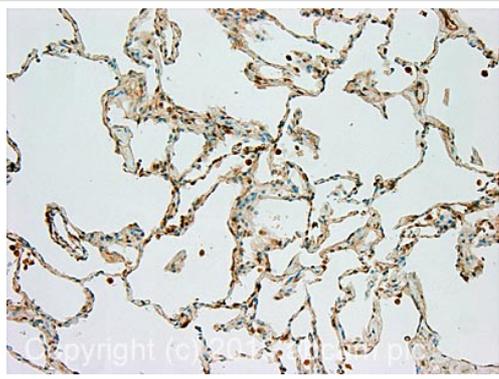
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 62 kDa).
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Receptor for interleukin 18 (IL-18). Binding to the agonist leads to the activation of NF-kappa-B.
Tissue specificity	Expressed in lung, leukocytes, spleen, liver, thymus, prostate, small intestine, colon, placenta, and heart, and is absent from brain, skeletal muscle, pancreas, and kidney. High level of expression in Hodgkin disease cell lines.
Sequence similarities	Belongs to the interleukin-1 receptor family. Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 TIR domain.
Cellular localization	Membrane.

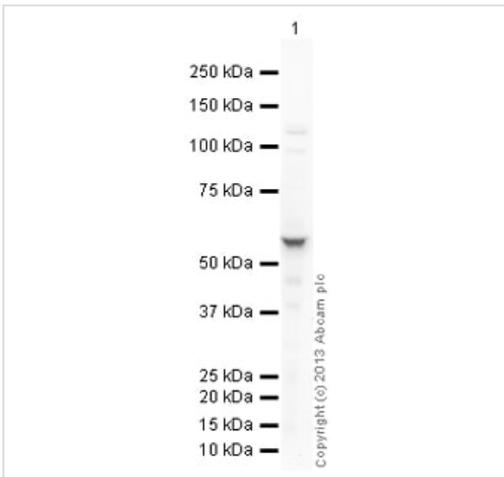
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-18R1 antibody (ab117432)

IHC image of IL18R1 staining in Human normal lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab117432, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Western blot - Anti-IL-18R1 antibody (ab117432)

Anti-IL-18R1 antibody (ab117432) at 1 µg/ml + Hodgkin's Lymphoma (Human) Whole Cell Lysate - tumor tissue at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 62 kDa

Observed band size: 60 kDa

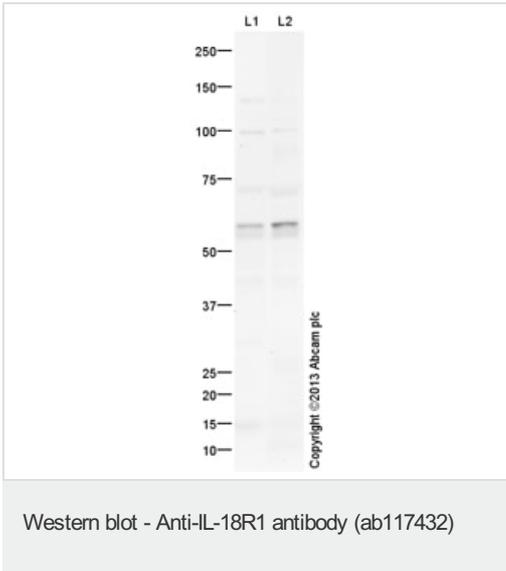
[why is the actual band size different from the predicted?](#)

Exposure time: 2 minutes

The band observed at 60 kDa could potentially be a cleaved form of IL18R1 due to the presence of an 18 amino acid signal peptide.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab117432 overnight at

4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



All lanes : Anti-IL-18R1 antibody (ab117432) at 1 µg/ml

Lane 1 : Spleen (Human) Tissue Lysate - adult normal tissue

Lane 2 : Lung (Human) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 62 kDa

Observed band size: 60 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 8 minutes

The band observed at 60 kDa could potentially be a cleaved form of IL18R1 due to the presence of an 18 amino acid signal peptide.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes.

The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab117432 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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

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